

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	FFFFFFFFFFFFFFFF
EEE	DDD	FFF
EEE	DDD	FFF
EEE	DDD	FFF
EEE	DDD	FFF
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EEE	DDD	FFF
EEEEEEEEEEEEEEEE	DDD	FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE	DDD	FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE	DDD	FFFFFFFFFFFFFFFF
EEE	DDD	FFF
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EEE	DDD	FFF
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	FFF
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EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	FFF

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LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             S
LL          II             S
LL          II             S
LL          II             S
LL          II             SSSSSS
LLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLL IIIIII          SSSSSSSS

```

[illegible]

[IDENT ('V04-000'),

(++

```
*****
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```

FACILITY: VAX/VMS EDF (EDIT/FDL) UTILITY

ABSTRACT: This facility is used to create, modify, and optimize
FDL specification files.

ENVIRONMENT: NATIVE/USER MODE

AUTHOR: Ken F. Henderson Jr.

CREATION DATE: 27-Mar-1981

MODIFIED BY:

V03-08	KFH0008	Ken Henderson	10 Sep 1983
	Support for named UICs		
V03-007	KFH0007	Ken Henderson	8 Aug 1983
	Changes for seperate compilation.		
V03-006	KFH0006	Ken Henderson	30 Jul 1983
	Added never_RU_journal.		
V03-005	KFH0005	Ken Henderson	14 Apr 1983
	Fixed SHOW_PRIMARY_SECTION routine.		
	Fixed CHECK_QUOTES routine.		
V03-004	KFH0004	Ken Henderson	22 Nov 1982
	Removed the EDF\$_INTSWERR numbers.		

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0059
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-- }

V03-003	KFH0003	Ken Henderson	8 Sept 1982
	Added CHECK_QUOTES routine.		
V03-002	KFH0002	Ken Henderson	23-Mar-1982
	Reordered the EDF\$_INTSWERR numbers.		
V03-001	KFH0001	Ken Henderson	17-Mar-1982
	Modified SHOW_CURRENT to fix FT2 QARs 440,449		

6 14
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277 Page 2
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (1)

[illegible]

0070
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0088

```
ENVIRONMENT ('LIBS:EDFSHOW'),  
INHERIT (  
  'SYSSLIBRARY:STARLET',  
  'SHRLIBS:FDLPARDEF',  
  'LIBS:EDFSDLMSG',  
  'LIBS:EDFSTRUCT',  
  'LIBS:EDFCONST',  
  'LIBS:EDFTYPE',  
  'LIBS:EDFVAR',  
  'LIBS:EDFEXTERN',  
  'LIBS:EDFCHF',  
  'LIBS:EDFUTIL',  
  'LIBS:EDFASK'  
)  
MODULE EDFSHOW (INPUT,OUTPUT):
```

H 14
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277 Page 3
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (2)

[illegible]

```
0090      ( ++
0091
0092      CHECK_QUOTES -- Bracket the output string with quotes.
0093
0094      This routine scans for quotes that bracket a string-valued output secondary.
0095      If they aren't there, it puts on 's. If there is a " in the string, it puts
0096      on 's. If there are both in the string, then it puts on 's (doubling embedded
0097      's).
0098
0099      CALLING SEQUENCE:
0100
0101      CHECK_QUOTES (DESC);
0102
0103      INPUT PARAMETERS:
0104
0105      DESC - the character string to scan.
0106
0107      IMPLICIT INPUTS:
0108
0109      APOSTROPHE
0110
0111      OUTPUT PARAMETERS:
0112
0113      DESC - the scanned character string
0114
0115      IMPLICIT OUTPUTS:
0116
0117      none
0118
0119      ROUTINES CALLED:
0120
0121      none
0122
0123      ROUTINE VALUE:
0124
0125      none
0126
0127      SIGNALS:
0128
0129      none
0130
0131      SIDE EFFECTS:
0132
0133      none
0134
0135      -- }
```



```
0137 PROCEDURE CHECK_QUOTES (VAR DESC: DESCRIPTOR);
0138
0139 VAR
0140     SCAN_INDEX : INTEGER;
0141     INDEX      : INTEGER;
0142     QUOTE_FOUND : BOOLEAN;
0143     APOST_FOUND : BOOLEAN;
0144     QCHAR      : CHAR;
0145     QUOTES     : CHAR;
0146
0147 BEGIN
0148     QUOTES := CHR (34);
0149
0150     { +
0151     Non-null strings are the most interesting.
0152     - }
0153     IF DESC.DSC$W_LENGTH <> 0 THEN
0154         BEGIN
0155             { +
0156             Don't disturb a string that already is enclosed in (')s or (")s.
0157             - }
0158             IF NOT (
0159                 (
0160                     (DESC.DSC$A_POINTER^[1] = APOSTROPHE)
0161                     AND
0162                     (DESC.DSC$A_POINTER^[DESC.DSC$W_LENGTH] = APOSTROPHE)
0163                 )
0164                 OR
0165                 (
0166                     (DESC.DSC$A_POINTER^[1] = QUOTES)
0167                     AND
0168                     (DESC.DSC$A_POINTER^[DESC.DSC$W_LENGTH] = QUOTES)
0169                 )
0170             ) THEN
0171                 BEGIN
0172                     { +
0173                     First, see if there are any nasty embedded quotes or apostrophes.
0174                     - }
0175                     QUOTE_FOUND := FALSE;
0176                     APOST_FOUND := FALSE;
0177                     FOR INDEX := 1 TO DESC.DSC$W_LENGTH DO
0178                         BEGIN
0179                             IF DESC.DSC$A_POINTER^[INDEX] = QUOTES THEN
0180                                 QUOTE_FOUND := TRUE;
0181                             IF DESC.DSC$A_POINTER^[INDEX] = APOSTROPHE THEN
0182                                 APOST_FOUND := TRUE;
```

```
0194 END;
0195 { +
0196 Just bracket the string with quotes if no quotes are found,
0197 or if just bracket it with apostrophes if no apostrophes are
0198 found.
0199 - }
0200 IF QUOTE_FOUND THEN
0201 BEGIN
0202     IF APOST_FOUND THEN
0203     BEGIN
0204         SCAN_INDEX := DESC.DSC$W_LENGTH;
0205         REPEAT
0206             IF DESC.DSC$A_POINTER^[SCAN_INDEX] = QUOTES THEN
0207             BEGIN
0208                 FOR INDEX := DESC.DSC$W_LENGTH DOWNTO SCAN_INDEX DO
0209                     DESC.DSC$A_POINTER^[INDEX+1]
0210                     := DESC.DSC$A_POINTER^[INDEX];
0211                 IF DESC.DSC$W_LENGTH < 254 THEN
0212                     DESC.DSC$W_LENGTH := DESC.DSC$W_LENGTH + 1;
0213             END;
0214             SCAN_INDEX := SCAN_INDEX - 1;
0215         UNTIL SCAN_INDEX < 1;
0216         QCHAR := QUOTES;
0217     END { IF TRUE APOST_FOUND (AND QUOTE_FOUND) -YUK }
0218 ELSE
0219     BEGIN
0220         QCHAR := APOSTROPHE;
0221     END; { IF FALSE APOST_FOUND }
0222 END { IF TRUE QUOTE_FOUND }
0223 ELSE
0224 BEGIN
```



```
0251      QCHAR      := QUOTES;
0252
0253  END;      { IF FALSE QUOTE_FOUND }
0254
0255  { +
0256  Shift the string down one char.
0257  - }
0258  FOR INDEX    := DESC.DSC$W_LENGTH DOWNT0 1 DO
0259
0260      DESC.DSC$A_POINTER^[INDEX+1]    := DESC.DSC$A_POINTER^[INDEX];
0261
0262  { +
0263  Update the length and add the quotes.
0264  - }
0265  DESC.DSC$W_LENGTH      := DESC.DSC$W_LENGTH + 2;
0266  DESC.DSC$A_POINTER^[1] := QCHAR;
0267  DESC.DSC$A_POINTER^[DESC.DSC$W_LENGTH] := QCHAR;
0268
0269  END;      { IF NOT (ALREADY QUOTED) }
0270
0271  END      { IF TRUE DESC.DSC$W_LENGTH <> 0 }
0272
0273  ELSE
0274
0275  BEGIN
0276
0277      STR$TRIM (DESC,EMPTY_STRING);
0278
0279  END;      { IF FALSE DESC.DSC$W_LENGTH <> 0 }
0280
0281  END;      { CHECK_QUOTES }
```

```
0283 { ++
0284
0285 SHOW_PRIMARY -- Output the text string for the primary.
0286
0287 This routine outputs the primary keyword.
0288
0289 CALLING SEQUENCE:
0290
0291 SHOW_PRIMARY;
0292
0293 INPUT PARAMETERS:
0294
0295 none
0296
0297 IMPLICIT INPUTS:
0298
0299 DEF CURRENT
0300 PRIMARY_WIDTH
0301
0302 OUTPUT PARAMETERS:
0303
0304 none
0305
0306 IMPLICIT OUTPUTS:
0307
0308 FDL_DEST
0309
0310 ROUTINES CALLED:
0311
0312 none
0313
0314 ROUTINE VALUE:
0315
0316 none
0317
0318 SIGNALS:
0319
0320 none
0321
0322 SIDE EFFECTS:
0323
0324 The text is shown on the terminal or put in the file. Wherever FDL_DEST points.
0325
0326 -- }
```



```
0328  PROCEDURE SHOW_PRIMARY;
0329
0330  VAR
0331      TEMP_PRI      : PRIMARY_TYPE;
0332
0333  BEGIN
0334
0335      WITH DEF_CURRENT^ DO
0336
0337          BEGIN
0338
0339              { +
0340              Fetch the primary we're showing.
0341              - }
0342              TEMP_PRI      := PRIMARY;
0343
0344              { +
0345              Output it, using the correct width.
0346              - }
0347              WRITE (FDL_DEST,TEMP_PRI:PRIMARY_WIDTH[TEMP_PRI]);
0348
0349              { +
0350              If it's one with a PRINUM, put that out too.
0351              - }
0352              IF TEMP_PRI IN [ ANALYSIS_OF_AREA, ANALYSIS_OF_KEY, AREA, KEY ] THEN
0353                  WRITE (FDL_DEST,' ',PRINUM:NUM_LEN(PRINUM));
0354
0355              { +
0356              If it's one with a string value, put that out too.
0357              - }
0358              IF TEMP_PRI IN [ IDENT, TITLE ] THEN
0359                  BEGIN
0360
0361                      CHECK_QUOTES (STRING);
0362
0363                      IF (STRING.DSC$W_LENGTH > 0) THEN
0364
0365                          WRITE (FDL_DEST,' ',STRING.DSC$A_POINTER^:
0366                              STRING.DSC$W_LENGTH);
0367
0368                  END;
0369
0370          END;
0371
0372      END;      { WITH DEF_CURRENT^ }
0373
0374  END;      { SHOW_PRIMARY }
```

```
0376 { ++
0377
0378 SHOW_SECONDARY -- Output a text string for the secondary keyword.
0379
0380 This routine outputs a secondary keyword.
0381
0382 CALLING SEQUENCE:
0383
0384 SHOW_SECONDARY;
0385
0386 INPUT PARAMETERS:
0387
0388 none
0389
0390 IMPLICIT INPUTS:
0391
0392 DEF CURRENT
0393 SECONDARY_WIDTH
0394
0395 OUTPUT PARAMETERS:
0396
0397 none
0398
0399 IMPLICIT OUTPUTS:
0400
0401 FDL_DEST
0402
0403 ROUTINES CALLED:
0404
0405 none
0406
0407 ROUTINE VALUE:
0408
0409 none
0410
0411 SIGNALS:
0412
0413 none
0414
0415 SIDE EFFECTS:
0416
0417 The secondary keyword is put into the file or onto the terminal. (FDL_DEST)
0418
0419 -- }
```



```
0421  PROCEDURE SHOW_SECONDARY;  
0422  
0423  VAR  
0424      TEMP_SEC      : SECONDARY_TYPE;  
0425  
0426  BEGIN  
0427  
0428      WITH DEF_CURRENT^ DO  
0429  
0430      BEGIN  
0431  
0432          { +  
0433          Fetch the secondary.  
0434          - }  
0435          TEMP_SEC      := SECONDARY;  
0436  
0437          { +  
0438          Output the secondary if it's a simply structured one.  
0439          - }  
0440          IF NOT ( TEMP_SEC IN [ SEG_LENGTH, SEG_POSITION, SEG_TYPE ] ) THEN  
0441  
0442          BEGIN  
0443  
0444              WRITE (FDL_DEST,' ',TEMP_SEC:SECONDARY_WIDTH[TEMP_SEC]);  
0445  
0446              { +  
0447              Put out extra tabs to compensate for short secondaries.  
0448              - }  
0449              IF (  
0450                  (TEMP_SEC = POSITIONS$)  
0451                  AND  
0452                  (NOT (QUALIFIER IN [ FDL$C_ANYPOS, FDL$C_NOPOS ]))  
0453              ) THEN  
0454  
0455                  WRITE (FDL_DEST,' ')  
0456  
0457              ELSE IF SECONDARY_WIDTH[TEMP_SEC] < 8 THEN  
0458  
0459                  WRITE (FDL_DEST,' ')  
0460  
0461              ELSE IF SECONDARY_WIDTH[TEMP_SEC] < 16 THEN  
0462  
0463                  WRITE (FDL_DEST,' ');  
0464  
0465          END  
0466      ELSE  
0467  
0468          { +  
0469          Here for the complicated secondaries: SEGn_xxx  
0470          - }  
0471          BEGIN  
0472  
0473              IF TEMP_SEC = SEG_LENGTH THEN  
0474  
0475                  WRITE (FDL_DEST,'      SEG',SECNUM:1,'_LENGTH ');  
0476  
0477
```

```
0478 { +
0479 Now do the same for the SEGn_POSITION secondary.
0480 - }
0481 IF TEMP_SEC = SEG_POSITION THEN
0482     WRITE (FDL_DEST,'      SEG',SECNUM:1,'_POSITION      ');
0483
0484 { +
0485 Ditto for SEGn_TYPE.
0486 - }
0487 IF TEMP_SEC = SEG_TYPE THEN
0488     WRITE (FDL_DEST,'      TYPE              ');
0489
0490     WRITE (FDL_DEST,'      TYPE              ');
0491
0492 { +
0493 SEGn_TYPE will NOT be supported until after version V3B
0494 - }
0495
0496 {      WRITE (FDL_DEST,'      SEG',SECNUM:1,'_TYPE      '); }
0497
0498     END;
0499
0500     END;      { WITH DEF_CURRENT^ }
0501
0502 END;      { SHOW_SECONDARY }
```


EDF SHOW
V04-000

Source Listing

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16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277
DISK\$VMSMASTER:[EDF.SRC]EDF SHOW.PAS;1 (9) Page 13

```
0504 { ++
0505
0506 SHOW_QUALIFIER -- Output a text string for the qualifier keyword.
0507
0508 This routine outputs the qualifier keyword.
0509
0510 CALLING SEQUENCE:
0511
0512 SHOW_QUALIFIER;
0513
0514 INPUT PARAMETERS:
0515
0516 none
0517
0518 IMPLICIT INPUTS:
0519
0520 DEF_CURRENT
0521
0522 OUTPUT PARAMETERS:
0523
0524 none
0525
0526 IMPLICIT OUTPUTS:
0527
0528 FDL_DEST
0529
0530 ROUTINES CALLED:
0531
0532 none
0533
0534 ROUTINE VALUE:
0535
0536 none
0537
0538 SIGNALS:
0539
0540 none
0541
0542 SIDE EFFECTS:
0543
0544 The keyword is put into the file or onto the terminal. (FDL_DEST)
0545
0546 -- }
```

0548 PROCEDURE SHOW_QUALIFIER;

0549 BEGIN

0550 { +
0551 Output the qualifiers.
0552 - }

0553 CASE DEF_CURRENT^.QUALIFIER OF

0554 FDLSC_ANYPOS :	0554 WRITE (FDL_DEST, 'any_cylinder');
0555 FDLSC_CLUSPOS :	0555 WRITE (FDL_DEST, 'cluster');
0556 FDLSC_CYLPOS :	0556 WRITE (FDL_DEST, 'cylinder');
0557 FDLSC_FIDPOS :	0557 WRITE (FDL_DEST, 'file_ID');
0558 FDLSC_FNMPOS :	0558 WRITE (FDL_DEST, 'file_name');
0559 FDLSC_LOGPOS :	0559 WRITE (FDL_DEST, 'logical');
0560 FDLSC_VIRPOS :	0560 WRITE (FDL_DEST, 'virtual');
0561 FDLSC_NOPOS,	
0562 FDLSC_NONE :	0562 WRITE (FDL_DEST, 'none');
0563 FDLSC_IDX :	0563 WRITE (FDL_DEST, 'indexed');
0564 FDLSC_REL :	0564 WRITE (FDL_DEST, 'relative');
0565 FDLSC_SEQ :	0565 WRITE (FDL_DEST, 'sequential');
0566 FDLSC_IF_IN :	0566 WRITE (FDL_DEST, 'if_in_recovery_unit');
0567 FDLSC_NE :	0567 WRITE (FDL_DEST, 'necessary_to_write');
0568 FDLSC_NEVER :	0568 WRITE (FDL_DEST, 'never_RU_journal');
0569 FDLSC_CR :	0569 WRITE (FDL_DEST, 'carriage_return');
0570 FDLSC_FTN :	0570 WRITE (FDL_DEST, 'FORTRAN');
0571 FDLSC_PRINT :	0571 WRITE (FDL_DEST, 'print');
0572 FDLSC_FIX :	0572 WRITE (FDL_DEST, 'fixed');
0573 FDLSC_STM :	0573 WRITE (FDL_DEST, 'stream');
0574 FDLSC_STMCR :	0574 WRITE (FDL_DEST, 'stream_CR');
0575 FDLSC_STMLF :	0575 WRITE (FDL_DEST, 'stream_LF');
0576 FDLSC_UDF :	0576 WRITE (FDL_DEST, 'undefined');
0577 FDLSC_VAR :	0577 WRITE (FDL_DEST, 'variable');
0578 FDLSC_VFC :	0578 WRITE (FDL_DEST, 'VFC');
0579 FDLSC_BN2 :	0579 WRITE (FDL_DEST, 'bin2');
0580 FDLSC_BN4 :	0580 WRITE (FDL_DEST, 'bin4');
0581 FDLSC_BN8 :	0581 WRITE (FDL_DEST, 'bin8');
0582 FDLSC_PAC :	0582 WRITE (FDL_DEST, 'decimal');
0583 FDLSC_IN2 :	0583 WRITE (FDL_DEST, 'int2');
0584 FDLSC_IN4 :	0584 WRITE (FDL_DEST, 'int4');
0585 FDLSC_IN8 :	0585 WRITE (FDL_DEST, 'int8');
0586 FDLSC_STG :	0586 WRITE (FDL_DEST, 'string');
0587 FDLSC_IAS :	0587 WRITE (FDL_DEST, 'IAS');
0588 FDLSC_RSTS :	0588 WRITE (FDL_DEST, 'RSTS/E');
0589 FDLSC_M :	0589 WRITE (FDL_DEST, 'RSX-11M');
0590 FDLSC_MPLUS :	0590 WRITE (FDL_DEST, 'RSX-11M-PLUS');
0591 FDLSC_RT :	0591 WRITE (FDL_DEST, 'RT-11');
0592 FDLSC_TRAX :	0592 WRITE (FDL_DEST, 'TRAX-11');
0593 FDLSC_VMS :	0593 WRITE (FDL_DEST, 'VAX/VMS');

0594 OTHERWISE

0595 { NULL-STATEMENT } ;

0596 END; { CASE }

0597 END; { SHOW_QUALIFIER }

0600

0601

0602

0603

0604


```
0606 { ++
0607
0608 SHOW_CURRENT -- Display (or output) the current line_object.
0609
0610 This routine outputs the textual representation of the line_object pointed
0611 to by DEF_HEAD.
0612
0613 CALLING SEQUENCE:
0614
0615 SHOW_CURRENT (PLUS_VALUE);
0616
0617 INPUT PARAMETERS:
0618
0619 none
0620
0621 IMPLICIT INPUTS:
0622
0623 DEF_CURRENT
0624 DEF_IS_TERMINAL
0625 LINES_PER_PAGE
0626
0627 OUTPUT PARAMETERS:
0628
0629 none
0630
0631 IMPLICIT OUTPUTS:
0632
0633 FDL_DEST
0634
0635 ROUTINES CALLED:
0636
0637 SHOW_PRIMARY
0638 SHOW_SECONDARY
0639 SHOW_QUALIFIER
0640 CLEAR
0641 LIB$SIGNAL
0642
0643 ROUTINE VALUE:
0644
0645 none
0646
0647 SIGNALS:
0648
0649
0650 SIDE EFFECTS:
0651
0652 none
0653
0654 -- }
```

```
0656  PROCEDURE SHOW_CURRENT (PLUS_VALUE : BOOLEAN);
0657
0658  VAR
0659      RETLEN      : [VOLATILE]$WORD;
0660
0661      PROCEDURE SHOW_PROT (PROTECTION : CTRL_ARRAY; FIELD_OFFSET : INTEGER);
0662
0663      BEGIN
0664
0665          IF PROTECTION[FIELD_OFFSET+EDF$V_NOREAD] THEN
0666              WRITE (FDL_DEST,'R');
0667
0668          IF PROTECTION[FIELD_OFFSET+EDF$V_NOWRITE] THEN
0669              WRITE (FDL_DEST,'W');
0670
0671          IF PROTECTION[FIELD_OFFSET+EDF$V_NOEXE] THEN
0672              WRITE (FDL_DEST,'E');
0673
0674          IF PROTECTION[FIELD_OFFSET+EDF$V_NODEL] THEN
0675              WRITE (FDL_DEST,'D');
0676
0677      END;      { SHOW_PROT }
0678
0679  BEGIN
0680
0681      { +
0682      If it's going to the terminal, shift it.
0683      - }
0684      IF DEST_IS_TERMINAL THEN
0685          WRITE (FDL_DEST,SHIFT);
0686
0687      { +
0688      Write to FDL_DEST, according to the type of object it is.
0689      - }
0690      CASE DEF_CURRENT^.OBJECT_TYPE OF
0691
0692          PRI :
0693
0694          WITH DEF_CURRENT^ DO
0695
0696              BEGIN
0697
0698                  { +
0699                  Output the primary.
0700                  - }
0701                  SHOW_PRIMARY;
0702
0703                  { +
0704                  Show only the primary if wanted.
0705                  - }
0706                  IF PLUS_VALUE THEN
```



```
0713 { +
0714 If it has an end-of-line comment on it, output that also.
0715 - }
0716 IF (COMMENT.DSC$W_LENGTH > 0) THEN
0717     WRITE (FDL_DEST, ' ', COMMENT.DSC$A_POINTER^:
0718           COMMENT.DSC$W_LENGTH);
0719
0720 { +
0721 This actually does the Q10.
0722 - }
0723 WRITELN (FDL_DEST);
0724
0725 END; { PRI }
0726
0727 SEC :
0728
0729 WITH DEF_CURRENT^ DO
0730 BEGIN
0731     { +
0732     Output the secondary.
0733     - }
0734     SHOW_SECONDARY;
0735
0736     { +
0737     Don't show the value unless wanted.
0738     - }
0739     IF PLUS_VALUE THEN
0740     BEGIN
0741         { +
0742         If it's a string valued secondary, put the string out.
0743         - }
0744         IF SEC_TYPE[SECONDARY].STR THEN
0745         BEGIN
0746             CHECK_QUOTES (STRING);
0747             IF (STRING.DSC$W_LENGTH > 0) THEN
0748             BEGIN
0749                 WRITE (FDL_DEST, ' ', STRING.DSC$A_POINTER^:
0750                       STRING.DSC$W_LENGTH);
0751             END;
0752         END;
0753         { +
0754         If it's a qualifier valued secondary, put the qualifier out.
0755         - }
0756         IF SEC_TYPE[SECONDARY].QUAL THEN
0757             SHOW_QUALIFIER;
0758     END;
0759     { +
0760
0761
0762
0763
0764
0765
0766
0767
0768
0769
```

```
0770 If it's a number valued secondary, put the number out.
0771 - )
0772 IF SEC_TYPE[SECONDARY].NUM THEN
0773 { +
0774 Show the number.
0775 - )
0776 WRITE (FDL_DEST,' ',NUMBER:NUM_LEN(NUMBER));
0777
0778 { +
0779 If it's a boolean valued secondary, put YES or NO out.
0780 - )
0781 IF SEC_TYPE[SECONDARY].SW THEN
0782 IF SWITCH THEN
0783 WRITE (FDL_DEST,' yes')
0784 ELSE
0785 WRITE (FDL_DEST,' no');
0786
0787 IF (
0788 (SECONDARY = NULL_VALUE)
0789 OR
0790 (SECONDARY = MT_PROTECTION)
0791 ) THEN
0792 BEGIN
0793 IF (
0794 (NUMBER < %X20) { SPACE }
0795 OR
0796 (NUMBER > %X7E) { ~ }
0797 ) THEN
0798 WRITE (FDL_DEST,' ',NUMBER:NUM_LEN(NUMBER))
0799 ELSE
0800 WRITE (FDL_DEST,' ',CHR(NUMBER),' ');
0801
0802 END; { IF SECONDARY = NULL_VALUE OR MT_PROTECTION }
0803
0804 { +
0805 Area Position is a special case.
0806 - )
0807 IF SECONDARY = POSITIONS THEN
0808 BEGIN
0809 SHOW_QUALIFIER;
0810 IF (
0811 QUALIFIER IN [ FDL$C_CYLPOS, FDL$C_LOGPOS, FDL$C_VIRPOS, FDL$C_CLUSPOS ]
0812 ) THEN
```

0770
0771
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0824
0825
0826


```
0827      { +
0828      Show the number.
0829      - }
0830      WRITE (FDL_DEST, '          ', NUMBER:NUM_LEN(NUMBER))
0831
0832  ELSE
0833  BEGIN
0834      CASE QUALIFIER OF
0835      FDL$C_FIDPOS :
0836      BEGIN
0837          WRITE (FDL_DEST,
0838                  '          ', FID1:NUM_LEN(FID1), ' ',
0839                  FID2:NUM_LEN(FID2), ' ',
0840                  FID3:NUM_LEN(FID3), ' ');
0841
0842      END;          { FILE_ID }
0843
0844      FDL$C_FNMPOS :
0845      BEGIN
0846          CHECK_QUOTES (STRING);
0847          IF (STRING.DSC$W_LENGTH > 0) THEN
0848              WRITE (FDL_DEST, '          ', STRING.DSC$A_POINTER^:
0849                      STRING.DSC$W_LENGTH);
0850
0851      END;          { FILE_NAME }
0852
0853      OTHERWISE
0854          { NULL-STATEMENT } ;
0855
0856      END;          { CASE }
0857
0858      END;          { IF FALSE QUALIFIER IN [ ... ] }
0859
0860  END;          { IF SECONDARY = POSITIONS$ }
0861
0862  { +
0863  OWNER is a special case.
0864  Use the special FAO directive to format the UIC.
0865  - }
0866  IF (SECONDARY = OWNER) THEN
0867  BEGIN
0868      TEMP_INT2 := OWNER UIC;
0869      $FAO ( '!! !XI' , RETLEN, TEMP_STRING255, TEMP_INT2);
0870      WRITE (FDL_DEST, TEMP_STRING255:RETLEN);
0871
0872
0873
0874
0875
0876
0877
0878
0879
0880
0881
0882
0883
```

```
0884 END;
0885
0886 { +
0887 PROTECTION is also a special case.
0888 - }
0889 IF (SECONDARY = PROTECTION) THEN
0890 BEGIN
0891     WRITE (FDL_DEST, ' (system:');
0892     SHOW PROT (PROT_MASK, EDF$V_SYS);
0893     WRITE (FDL_DEST, ' owner:');
0894     SHOW PROT (PROT_MASK, EDF$V_OWN);
0895     WRITE (FDL_DEST, ' group:');
0896     SHOW PROT (PROT_MASK, EDF$V_GRP);
0897     WRITE (FDL_DEST, ' world:');
0898     SHOW PROT (PROT_MASK, EDF$V_WLD);
0899     WRITE (FDL_DEST, ')');
0900
0901 END; { IF TRUE SECONDARY = PROTECTION }
0902
0903 { +
0904 If it has an end-of-line comment, put that out too.
0905 - }
0906 IF (COMMENT.DSC$W_LENGTH > 0) THEN
0907     WRITE (FDL_DEST, ' ', COMMENT.DSC$A_POINTER^:
0908     COMMENT.DSC$W_LENGTH);
0909
0910 { +
0911 This actually does the QIO.
0912 - }
0913 WRITELN (FDL_DEST);
0914
0915 END; { IF PLUS_VALUE }
0916
0917 END; { SEC }
0918
0919 COM :
0920 WITH DEF_CURRENT^ DO
0921 BEGIN
0922     { +
0923     This is a full-line comment. Just output it.
0924     - }
0925     IF (COMMENT.DSC$W_LENGTH > 0) THEN
0926         WRITELN (FDL_DEST, COMMENT.DSC$A_POINTER^:
0927         COMMENT.DSC$W_LENGTH);
0928
0929 END; { COM }
0930
0931 OTHERWISE
0932     { NULL-STATEMENT } ;
0933
0934
0935
0936
0937
0938
0939
0940
```



```
0941 END;          { CASE }
0942
0943 { +
0944 Keep track of the number of lines shown.
0945 - }
0946 LINES_SHOWN := LINES_SHOWN + 1;
0947
0948 IF DEST_IS_TERMINAL THEN
0949 BEGIN
0950     IF DEF_CURRENT^.FORE <> NIL THEN
0951     IF (
0952         (((LINES_PER_PAGE - EDF$C_HEADROOM) - LINES_SHOWN) < 4)
0953         AND
0954         ((DEF_CURRENT^.PRIMARY <> DEF_CURRENT^.FORE^.PRIMARY)
0955         OR
0956         (DEF_CURRENT^.PRINUM <> DEF_CURRENT^.FORE^.PRINUM))
0957         ) THEN
0958     BEGIN
0959         { +
0960         We're about to output a short primary, reset and
0961         clear the screen (after the user hits RETURN).
0962         - }
0963         LINES_SHOWN := 0;
0964         CLEAR(PAUSE);
0965     END;
0966
0967 IF (
0968     (LINES_SHOWN >= (LINES_PER_PAGE - EDF$C_HEADROOM))
0969 ) THEN
0970 BEGIN
0971     { +
0972     The counter tripped, reset and clear the screen
0973     (after the user hits RETURN).
0974     - }
0975     LINES_SHOWN := 0;
0976     CLEAR(PAUSE);
0977 END;
0978
0979 END;          { IF DEST_IS_TERMINAL }
0980
0981 END;          { SHOW_CURRENT }
0982
0983 END;          { SHOW_CURRENT }
```

EDFSHOW
V04-000

Source Listing

N 15
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (13) Page 22

```
0993 { ++
0994
0995 GENERATE_FDL -- Routine to output the FDL definition.
0996
0997 This routine outputs the FDL definition.
0998
0999 CALLING SEQUENCE:
1000
1001 GENERATE_FDL;
1002
1003 INPUT PARAMETERS:
1004
1005 none
1006
1007 IMPLICIT INPUTS:
1008
1009 DEF_CURRENT
1010 ANST_REVERSE
1011
1012 OUTPUT PARAMETERS:
1013
1014 none
1015
1016 IMPLICIT OUTPUTS:
1017
1018 FDL_DEST
1019 LINES_SHOWN
1020
1021 ROUTINES CALLED:
1022
1023 CLEAR
1024 SHOW_CURRENT
1025 INCR_CURRENT
1026 LIB$SIGNAL
1027
1028 ROUTINE VALUE:
1029
1030 none
1031
1032 SIGNALS:
1033
1034
1035 SIDE EFFECTS:
1036
1037 none
1038
1039 -- }
```



```
1041 PROCEDURE GENERATE_FDL;
1042
1043 VAR
1044     PREV_PRIMARY      : PRIMARY_TYPE;
1045     PREV_PRINUM       : INTEGER;
1046
1047 BEGIN
1048
1049     { +
1050     Do the Primaries as stored in the Definition Linked List.
1051     - }
1052     DEF_CURRENT := DEF_HEAD;
1053
1054     { +
1055     Setup to keep track of new primaries.
1056     - }
1057     PREV_PRINUM := -1;
1058
1059     { +
1060     Initialize the line counter (incremented in SHOW_CURRENT).
1061     - }
1062     LINES_SHOWN := 0;
1063
1064     { +
1065     Do it, if there is something to show.
1066     - }
1067     IF DEF_CURRENT <> NIL THEN
1068
1069     BEGIN
1070
1071         { +
1072         List isn't empty, cycle through the line_objects and show them.
1073         At least until the end of the list, or until the user types ^Z.
1074         - }
1075
1076         REPEAT
1077
1078             { +
1079             Produce the textual version of the Definition Linked List.
1080             Precede the 1st occurrence of a primary with 2 blank lines.
1081             - }
1082             WITH DEF_CURRENT^ DO
1083
1084             BEGIN
1085
1086                 IF PREV_PRINUM < 0 THEN
1087
1088                 BEGIN
1089
1090                     { +
1091                     Initial primary, don't skip lines here, just setup.
1092                     - }
1093                     PREV_PRIMARY      := PRIMARY;
1094                     PREV_PRINUM       := PRINUM;
1095
1096                 END
1097
```



```
1098
1099
1100
1101
1102
1103     { +
1104     Skip a line if this is a new primary.
1105     - }
1106     IF NOT (
1107     (PREV_PRIMARY = PRIMARY) AND (PREV_PRINUM = PRINUM)
1108     ) THEN
1109     BEGIN;
1110
1111         PREV_PRIMARY      := PRIMARY;
1112         PREV_PRINUM       := PRINUM;
1113
1114         { +
1115         This is a new primary, put out a blank line.
1116         - }
1117         WRITELN (FDL_DEST);
1118         LINES_SHOWN      := LINES_SHOWN + 1;
1119
1120     END;
1121
1122     END;    { IF FALSE PREV_PRINUM >= 0 }
1123
1124 END;    { WITH DEF_CURRENT^ }
1125
1126 SHOW_CURRENT (TRUE);
1127 INCR_CURRENT;
1128
1129 UNTIL DEF_CURRENT = NIL;
1130
1131 END;    { IF FALSE DEF_CURRENT = NIL }
1132
1133 END;    { GENERATE_FDL }
```



```
1135 ( ++
1136
1137 VIEW_DEF -- Routine to show the user the Definition Linked List.
1138 This routine will display the definition on the user's terminal.
1139
1140 CALLING SEQUENCE:
1141
1142 VIEW_DEF;
1143
1144 INPUT PARAMETERS:
1145
1146 none
1147
1148 IMPLICIT INPUTS:
1149
1150 SYSS$OUTPUT_NAME
1151 DEF_CURRENT
1152 CONTROL_ZEE_TYPED
1153
1154 OUTPUT PARAMETERS:
1155
1156 none
1157
1158 IMPLICIT OUTPUTS:
1159
1160 SYSS$INPUT: the terminal
1161 DEST_IS_TERMINAL
1162
1163 ROUTINES CALLED:
1164
1165 CLEAR
1166 GENERATE_FDL
1167
1168 ROUTINE VALUE:
1169
1170 none
1171
1172 SIGNALS:
1173
1174 none
1175
1176 SIDE EFFECTS:
1177
1178 none
1179
1180 -- }
1181
```

```
1183 PROCEDURE VIEW_DEF;
1184
1185 BEGIN
1186     { +
1187     Erase the user's screen.
1188     - }
1189     CLEAR (SCREEN);
1190
1191     { +
1192     'Open' his terminal and initialize it.
1193     Close it first to avoid conflicts.
1194     - }
1195     DEST_IS_TERMINAL := TRUE;
1196
1197     CLOSE      (FDL_DEST, ERROR := CONTINUE);
1198     OPEN        (FDL_DEST, SYSS$OUTPUT_NAME, NEW, RECORD_LENGTH := 252);
1199     REWRITE     (FDL_DEST);
1200
1201     { +
1202     Put the current definition out to the terminal.
1203     - }
1204     GENERATE_FDL;
1205
1206     { +
1207     We're done, close it off.
1208     - }
1209     CLOSE      (FDL_DEST);
1210
1211     { +
1212     Don't clear if the user hit ^Z, or if SHOW_CURRENT had just done a PAUSE.
1213     - }
1214     IF (NOT CONTROL_ZEE_TYPED) AND (LINES_SHOWN <> 0) THEN
1215     BEGIN
1216
1217         WRITELN;
1218         CLEAR (PAUSE);
1219
1220     END;
1221
1222 END; { VIEW_DEF }
```



```
1226 { ++
1227
1228 SHOW_PRIMARY_SECTION -- Display the whole primary section.
1229
1230 This routine outputs the selected primary section to the screen.
1231
1232 CALLING SEQUENCE:
1233
1234 SHOW_PRIMARY_SECTION (TEST);
1235
1236 INPUT PARAMETERS:
1237
1238 TEST
1239
1240 IMPLICIT INPUTS:
1241
1242 FDL_DEST
1243 CONTROL_ZEE_TYPED
1244 DEF_CURRENT
1245 DEF_HEAD
1246
1247 OUTPUT PARAMETERS:
1248
1249 none
1250
1251 IMPLICIT OUTPUTS:
1252
1253 SYSS$OUTPUT:
1254 DEF_CURRENT
1255
1256 ROUTINES CALLED:
1257
1258 CLEAR
1259 INCR_CURRENT
1260 SECTION_MATCH
1261
1262 ROUTINE VALUE:
1263
1264 none
1265
1266 SIGNALS:
1267
1268 none
1269
1270 SIDE EFFECTS:
1271
1272 none
1273
1274 -- }
```

```
1276 [GLOBAL] PROCEDURE SHOW_PRIMARY_SECTION (TEST : LINE_OBJECT);
1277
1278 VAR
1279     AT_PRIMARY : BOOLEAN;
1280
1281 BEGIN
1282     { +
1283     Show him that whole primary section.
1284     - }
1285     LINES_SHOWN      := 0;
1286
1287     { +
1288     Step through the whole list.
1289     - }
1290     DEF_CURRENT      := DEF_HEAD;
1291     AT_PRIMARY       := FALSE;
1292
1293     REPEAT
1294     { +
1295     If DEF_CURRENT points to a line_object in that primary, show it.
1296     - }
1297     IF CURRENT_EQ_TEST (TEST,FALSE) THEN
1298     BEGIN
1299         SHOW_CURRENT (TRUE);
1300         AT_PRIMARY := TRUE;
1301     END
1302     ELSE
1303     BEGIN
1304         IF AT_PRIMARY THEN
1305             DEF_CURRENT := NIL;
1306         END;
1307         { +
1308         Try the next.
1309         - }
1310         INCR_CURRENT;
1311     UNTIL DEF_CURRENT = NIL;
1312     WRITELN (FDL_DEST);
1313 END; { SHOW_PRIMARY_SECTION }
```



```
1329      ( ++
1330
1331      SHOW_ALL_PRIMARIES -- Display the existing primary attributes.
1332
1333      This routine outputs the existing primaries on the screen.
1334
1335      CALLING SEQUENCE:
1336
1337      SHOW_ALL_PRIMARIES;
1338
1339      INPUT PARAMETERS:
1340
1341      none
1342
1343      IMPLICIT INPUTS:
1344
1345      FDL_DEST
1346      CONTROL_ZEE_TYPED
1347      DEF_CURRENT
1348      DEF_HEAD
1349
1350      OUTPUT PARAMETERS:
1351
1352      none
1353
1354      IMPLICIT OUTPUTS:
1355
1356      SYSS$OUTPUT:
1357      DEF_CURRENT
1358
1359      ROUTINES CALLED:
1360
1361      CLEAR
1362      INCR_CURRENT
1363      SECTION_MATCH
1364
1365      ROUTINE VALUE:
1366
1367      none
1368
1369      SIGNALS:
1370
1371      none
1372
1373      SIDE EFFECTS:
1374
1375      none
1376
1377      -- }
```

```
1379 [GLOBAL] PROCEDURE SHOW_ALL_PRIMARIES;
1380
1381 BEGIN
1382
1383   { +
1384   Show him all the primary attributes.
1385   - }
1386   LINES_SHOWN      := 0;
1387
1388   { +
1389   Step through the whole list.
1390   - }
1391   DEF_CURRENT      := DEF_HEAD;
1392
1393   REPEAT
1394
1395     { +
1396     If DEF_CURRENT points to a line_object that is a primary, show it.
1397     But not the Ident.
1398     - }
1399     IF (
1400       (DEF_CURRENT^.OBJECT_TYPE = PRI)
1401       AND
1402       (DEF_CURRENT^.PRIMARY <> IDENT)
1403     ) THEN
1404
1405       SHOW_CURRENT (TRUE);
1406
1407     { +
1408     Try the next.
1409     - }
1410     INCR_CURRENT;
1411
1412   UNTIL DEF_CURRENT = NIL;
1413
1414   WRITELN (FDL_DEST);
1415
1416 END; { SHOW_ALL_PRIMARIES }
```



```
1418 { ++
1419
1420 SHOW_CUR_PRI_SEC -- Display the line_object pointed to by def_current.
1421
1422 This routine outputs the def_current line_object.
1423
1424 CALLING SEQUENCE:
1425
1426 SHOW_CUR_PRI_SEC;
1427
1428 INPUT PARAMETERS:
1429
1430 none
1431
1432 IMPLICIT INPUTS:
1433
1434 FDL_DEST
1435 CONTROL_ZEE_TYPED
1436 DEF_CURRENT
1437 DEF_HEAD
1438
1439 OUTPUT PARAMETERS:
1440
1441 none
1442
1443 IMPLICIT OUTPUTS:
1444
1445 SYSSOUTPUT:
1446 DEF_CURRENT
1447
1448 ROUTINES CALLED:
1449
1450 CLEAR
1451 INCR_CURRENT
1452 SECTION_MATCH
1453
1454 ROUTINE VALUE:
1455
1456 none
1457
1458 SIGNALS:
1459
1460 none
1461
1462 SIDE EFFECTS:
1463
1464 none
1465
1466 -- }
```

```
1468 [GLOBAL] PROCEDURE SHOW_CUR_PRI_SEC (PLUS_VALUE : BOOLEAN);
1469
1470 VAR
1471     SAVE_OBJECT_TYPE          : LINE_OBJECT_TYPE;
1472
1473 BEGIN
1474     LINES_SHOWN                := 0;
1475
1476     { +
1477     Now display the 2 versions of the line_object.
1478     All this only works because the primary that a line_object is in
1479     is stored redundantly in all the subsequent secondaries.
1480     - }
1481     SAVE_OBJECT_TYPE           := DEF_CURRENT^.OBJECT_TYPE;
1482
1483     DEF_CURRENT^.OBJECT_TYPE   := PRI;
1484     SHOW_CURRENT (PLUS_VALUE);
1485
1486     IF DEF_CURRENT^.PRIMARY <> TITLE THEN
1487     BEGIN
1488         DEF_CURRENT^.OBJECT_TYPE := SEC;
1489         SHOW_CURRENT (PLUS_VALUE);
1490     END;
1491
1492     DEF_CURRENT^.OBJECT_TYPE    := SAVE_OBJECT_TYPE;
1493
1494 END; { SHOW_CUR_PRI_SEC }
1495
1496 END.
1497
1498 { End of file: SRC$:EDFSHOW.PAS }
```



```
0000006B 00000064 00000055 00000010 00000048
0000009D 00000095 00000090 00000080 0000006F
000000BA 000000B6 000000AE 000000A8 000000A2
000000D1 000000CA 000000C2
59 45 50 59 54 5F 59 52 41 4D 49 52 50 0C
52 41 4D 49 52 50 5F 59 4D 4D 55 44 0E
24
53 53 45 43 43 41 06
4C 43 41 03
41 5F 46 4F 5F 53 49 53 59 4C 41 4E 41 10
41 45 52
4B 5F 46 4F 5F 53 49 53 59 4C 41 4E 41 0F
59 45
41 45 52 41 04
54 43 45 4E 4E 4F 43 07
45 54 41 44 04
24 45 4C 49 46 05
54 4E 45 44 49 05
4C 41 4E 52 55 4F 4A 07
59 45 4B 03
24 44 52 4F 43 45 52 07
47 4E 49 52 41 48 53 07
4D 45 54 53 59 53 06
00 45 4C 54 49 54 05
08 38
82 00
00000000 00000000 00000000 00000000
00 00 E0
0000028E 00000284 00000273 00000097 00000264
000002B5 000002AB 000002A0 0000029B 00000296
000002F4 000002DE 000002D3 000002C3 000002BD
00000343 0000033D 00000333 0000031F 0000030D
0000039F 0000038B 00000376 0000036A 00000357
000003F5 000003E1 000003D2 000003C2 000003B0
00000442 0000042F 00000423 00000416 00000401
00000475 0000046C 0000045F 00000457 0000044D
000004AE 000004A2 00000495 00000489 00000481
000004F8 000004EC 000004E2 000004D1 000004BF
00000547 00000535 00000524 00000513 00000505
0000058B 0000057C 0000056C 00000561 0000054E
000005D8 000005CE 000005BE 000005AA 0000059A
00000626 00000616 0000060C 000005FB 000005EC
0000065B 00000651 00000645 0000063B 00000633
0000069C 00000693 00000686 0000067A 00000666
000006DD 000006CD 000006BE 000006B1 000006A7
00000729 0000071B 00000707 000006FD 000006ED
00000775 00000765 00000756 00000748 0000073D
000007BA 000007A6 0000079D 00000798 00000787
000007F9 000007EE 000007DF 000007D9 000007CC
00000837 0000082D 0000081D 0000080D 00000804
0000087A 0000086E 00000862 00000853 00000841
```

```
00000 .TITLE EDFSHOW
00014 .IDENT \V04-000\
00028
0003C
00048
00055 .PSECT $CODE,PIC,CON,REL,LCL,SHR,EXE,RD,NOWRT,2
00063 .LONG 72,16,85,100,107,111,128,144,149,157,162,-
00064 168,174,182,186,194,202,209
0006B .ASCII <12>\PRIMARY TYPE\
0006F .ASCII <14>\DUMMY_PRIMARY$
0007D .ASCII <6>\ACCESS\
00080 .ASCII <3>\ACL\
0008E .ASCII <16>\ANALYSIS_OF_AREA\
00090 .ASCII <15>\ANALYSIS_OF_KEY\
00095 .ASCII <4>\AREA\
0009D .ASCII <7>\CONNECT\
000A2 .ASCII <4>\DATE\
000A8 .ASCII <5>\FILES\
000AE .ASCII <5>\IDENT\
000B6 .ASCII <7>\JOURNAL\
000BA .ASCII <3>\KEY\
000C2 .ASCII <7>\RECORDS\
000CA .ASCII <7>\SHARING\
000D1 .ASCII <6>\SYSTEM\
000D8 C.AAB: .ASCII <5>\TITLE\<0>
000DA C.AAC: .BYTE ^X38,8
000DC C.AAD: .BYTE 0,^X82
000EC .LONG 0,0,0,0
000EF .BYTE ^XE0,0,0
000F0 C.AAE: .BLKB 1
00104 .LONG 612,151,627,644,654,662,667,672,683,693,-
00118 701,707,723,734,756,781,799,819,829,835,-
0012C 855,874,886,907,927,944,962,978,993,1013,-
00140 1025,1046,1059,1071,1090,1101,1111,1119,-
00154 1132,1141,1153,1161,1173,1186,1198,1215,-
00168 1233,1250,1260,1272,1285,1299,1316,1333,-
0017C 1351,1358,1377,1388,1404,1419,1434,1450,-
00190 1470,1486,1496,1516,1531,1548,1558,1574,-
001A4 1587,1595,1605,1617,1627,1638,1658,1670,-
001B8 1683,1692,1703,1713,1726,1741,1757,1773,-
001CC 1789,1799,1819,1833,1853,1864,1878,1893,-
001E0 1909,1927,1944,1949,1958,1978,1996,2009,-
001F4 2015,2030,2041,2052,2061,2077,2093,2103,-
00208 2113,2131,2146,2158,2170,2182,2193,2205,-
0021C 2216,2229,2241,2255,2263,2273,2283,2304,-
00230 2328,2339,2350,2368,2379,2397,2403,2412,-
00244 2423,2432,2443,2456
00258
0026C
00280
00294
002AB
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		24 45 54 45 44 07			0036D
		24 54 45 47 04			00370
	24 4F 49 5F 44 52	4F 43 45 52 0A			0037A
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43 4F 5F	45 43 41 50 53 5F	41 54 41 44 13			003EE
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		53 45 53 45 43			0049C
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.ASCII <7>\DELETES\
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.ASCII <10>\RECORD_IOS\
.ASCII <9>\TRUNCATES\
.ASCII <7>\UPDATES\
.ASCII <5>\ENTRY\
.ASCII <15>\RECLAIMED_SPACE\
.ASCII <10>\DATA_FILL\$\
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.ASCII <11>\CONTIGUOUS\$

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0056D	.ASCII	<7>\CONTEXT\$\\
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0059A	.ASCII	<16>\KEY_OF_REFERENCE\$\\
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005FF	.ASCII	<16>\MANUAL_UNLOCKING\$\\
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006AA	.ASCII	<15>\TT_UPCASE_INPUT\$\\
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006E7	.ASCII	<16>\TT_READ_NOFILTER\$\\
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006F8	.ASCII	<9>\UPDATE_IF\$\\
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008B8	.ASCII	<12>\ORGANIZATION\
008C5	.ASCII	<5>\OWNER\
008CB	.ASCII	<14>\PRINT_ON_CLOSE\
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008E5	.ASCII	<10>\READ_CHECK\
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00989 .ASCII <10>\AUDIT-NAME\
00994 .ASCII <12>\BEFORE_IMAGE\
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009BB .ASCII <7>\CHANGES\
009C3 .ASCII <9>\DATA_AREA\
009CD .ASCII <9>\DATA_FILL\
009D7 .ASCII <20>\DATA_KEY_COMPRESSION\
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009EC .ASCII <23>\DATA_RECORD_COMPRESSION\
009FA
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00A0F .ASCII <10>\INDEX_AREA\
00A1A .ASCII <17>\INDEX_COMPRESSION\
00A28
00A2C .ASCII <10>\INDEX_FILL\
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00A63 .ASCII <8>\PROLOGUE\
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00A77 .ASCII <12>\SEG_POSITION\
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00A8D .ASCII <10>\BLOCK_SPAN\
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00AA9 .ASCII <18>\CONTROL_FIELD_SIZE\
00AB7
00ABC .ASCII <6>\FORMAT\
00AC3 .ASCII <4>\SIZE\
00AC8 .ASCII <6>\DELETE\
00ACF .ASCII <3>\GET\
00AD3 .ASCII <11>\MULTISTREAM\
00ADF .ASCII <8>\PROHIBIT\
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00AEC .ASCII <6>\UPDATE\
00AF3 .ASCII <14>\USER_INTERLOCK\
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00B02 .ASCII <6>\DEVICE\
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Generated Code

E 1
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

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DISK\$VMSMASTER:[EDF.SRC]EDF SHOW.PAS;1 (22)

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00 6C 61 63 69 67 6F 6C
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76 69 74 61 6C 65 72 09
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5F 6F 74 5F 79 72 61 73 73 65 63 65 6E 09
72 75 6F 6A 5F 55 52 5F 72 65 76 65 6E 09
75 74 65 72 5F 65 67 61 69 72 72 61 63 09
6E 72
4E 41 52 54 52 4F 46 09
00 00 74 6E 69 72 70 09
00 00 64 65 78 69 66 09
00 6D 61 65 72 74 73 09
00 5F 6D 61 65 72 74 73 09
00 00 46 4C 5F 6D 61 65 72 74 73 09
00 00 64 65 6E 69 66 65 64 6E 75 09
00 00 00 65 6C 62 61 69 72 61 76 09
43 46 56 09
00 00 00 32 6E 69 62 09
00 00 00 34 6E 69 62 09
00 00 00 38 6E 69 62 09
6C 61 6D 69 63 65 64 09
00 00 00 32 74 6E 69 09
00 00 00 34 74 6E 69 09
00 00 00 38 74 6E 69 09
00 67 6E 69 72 74 73 09
53 41 49 09
00 45 2F 53 54 53 52 09
4D 31 31 2D 58 53 52 09
00 53 55 4C 50 2D 4D 31 31 2D 58 53 52 09
00 00
00 00 31 31 2D 54 52 09
31 31 2D 58 41 52 54 09
53 4D 56 2F 58 41 56 09
73 65 79 09
00 6F 6E 09
00 00 27 09
00000000 00000000 00000000 00000000 000000A6
00000000 00000000 00000000
00 00 00 49 25 21 5F 21
00 00 00 3A 6D 65 74 73 79 73 28 09
3A 72 65 6E 77 6F 20 2C
3A 70 75 6F 72 67 20 2C
3A 64 6C 72 6F 77 20 2C
```

```
00B60 C.AAM: .ASCII <9>\TYPE\<9><9><0>
00B68 C.AAN: .ASCII <9>\any_cylinder\<0><0><0>
00B76
00B78 C.AAO: .ASCII \cluster\<0>
00B80 C.AAP: .ASCII \cylinder\
00B88 C.AAQ: .ASCII \file_ID\<0>
00B90 C.AAR: .ASCII \file_name\<0><0><0>
00B9C C.AAS: .ASCII \logical\<0>
00BA4 C.AAT: .ASCII \virtual\<0>
00BAC C.AAU: .ASCII <9>\none\<0><0><0>
00BB4 C.AAV: .ASCII <9>\indexed\
00BBC C.AAW: .ASCII <9>\relative\<0><0><0>
00BC8 C.AAX: .ASCII <9>\sequential\<0>
00BD4 C.AAY: .ASCII <9>\if_in_recovery_unit\
00BE2
00BE8 C.AAZ: .ASCII <9>\necessary_to_write\<0>
00BF6
00BFC C.ABA: .ASCII <9>\never_RU_journal\<0><0><0>
00C0A
00C10 C.ABB: .ASCII <9>\carriage_return\
00C1E
00C20 C.ABC: .ASCII <9>\FORTRAN\
00C28 C.ABD: .ASCII <9>\print\<0><0>
00C30 C.ABE: .ASCII <9>\fixed\<0><0>
00C38 C.ABF: .ASCII <9>\stream\<0>
00C40 C.ABG: .ASCII <9>\stream_CR\<0><0>
00C4C C.ABH: .ASCII <9>\stream_LF\<0><0>
00C58 C.ABI: .ASCII <9>\undefined\<0><0>
00C64 C.ABJ: .ASCII <9>\variable\<0><0><0>
00C70 C.ABK: .ASCII <9>\VFC\
00C74 C.ABL: .ASCII <9>\bin2\<0><0><0>
00C7C C.ABM: .ASCII <9>\bin4\<0><0><0>
00C84 C.ABN: .ASCII <9>\bin8\<0><0><0>
00C8C C.ABO: .ASCII <9>\decimal\
00C94 C.ABP: .ASCII <9>\int2\<0><0><0>
00C9C C.ABQ: .ASCII <9>\int4\<0><0><0>
00CA4 C.ABR: .ASCII <9>\int8\<0><0><0>
00CAC C.ABS: .ASCII <9>\string\<0>
00CB4 C.ABT: .ASCII <9>\IAS\
00CB8 C.ABU: .ASCII <9>\RSTS/E\<0>
00CC0 C.ABV: .ASCII <9>\RSX-11M\
00CC8 C.ABW: .ASCII <9>\RSX-11M-PLUS\<0><0><0>
00CD6
00CD8 C.ABX: .ASCII <9>\RT-11\<0><0>
00CE0 C.ABY: .ASCII <9>\TRAX-11\
00CE8 C.ABZ: .ASCII <9>\VAX/VMS\
00CF0 C.ACA: .ASCII <9>\yes\
00CF4 C.ACB: .ASCII <9>\no\<0>
00CF8 C.ACC: .ASCII <9>\'\<0><0>
00CFC C.ACD: .LONG *XA6,0,0,0,0,0,0,0
00D10
00D1C C.ACE: .ASCII <9>\(\<0><0>
00D20 C.ACF: .ASCII \! !I\<0><0><0>
00D28 C.ACG: .ASCII <9>\(system:\<0><0><0>
00D34 C.ACH: .ASCII \, owner:\
00D3C C.ACI: .ASCII \, group:\
00D44 C.ACJ: .ASCII \, world:\
```


			00000	CHECK_QUOTES:		; 0137
		007C	00000	.WORD	^M<R2,R3,R4,R5,R6>	
5E		08	C2	SUBL2	#8,SP	
50		22	90	MOVW	#34,QUOTES	; 0149
	04	BC	B5	TSTW	@4(R12)	; 0154
		03	12	BNEQ	+3	
		0000V	31	BRW	29\$	
51	04	AC	D0	MOVL	4(R12),R1	; 0161
50	04	B1	91	CMPB	@4(R1),QUOTES	
		00V	12	BNEQ	3\$	
51	04	BC	3C	MOVZWL	@4(R12),R1	
52	04	AC	D0	MOVL	4(R12),R2	
52	04	A2	D0	MOVL	4(R2),R2	
50	FF	A241	91	CMPB	-1(R2)[R1],QUOTES	
		03	12	BNEQ	+3	
		0000V	31	BRW	30\$	
	04	AC	D0	MOVL	4(R12),R2	
00000000G	52	04	B2	CMPB	@4(R2),APOSTROPHE	
	EF		91	BNEQ	5\$	
		00V	12	MOVZWL	@4(R12),R2	
52	04	BC	3C	MOVL	4(R12),R1	
51	04	AC	D0	MOVL	4(R1),R1	
51	04	A1	D0	CMPB	-1(R1)[R2],APOSTROPHE	
00000000G	51	FF	A142	BNEQ	+3	
			03	BRW	30\$	
		0000V	31	CLRB	QUOTE_FOUND	; 0180
		51	94	CLRB	APOST_FOUND	; 0181
		52	94	MOVL	#1,R3	; 0183
53		01	D0	MOVZWL	@4(R12),R4	
54	04	BC	3C	CPL	R3,R4	
54		53	D1	BGTR	11\$	
		00V	14	MOVL	R3,INDEX	
55		53	D0	MOVL	4(R12),R6	; 0187
56	04	AC	D0	MOVL	4(R6),R6	
56	04	A6	D0	CMPB	-1(R6)[INDEX],QUOTES	
50	FF	A645	91	BNEQ	8\$	
		00V	12	MOVW	#1,QUOTE_FOUND	; 0189
51		01	90	MOVL	4(R12),R5	; 0191
56	04	AC	D0	MOVL	4(R6),R6	
56	04	A6	D0	CMPB	-1(R6)[INDEX],APOSTROPHE	
00000000G	56	FF	A645	BNEQ	10\$	
	EF		00V	MOVW	#1,APOST_FOUND	; 0193
			01	AOBLEQ	R4,R3,6\$	
D1	52		54	BLBC	QUOTE_FOUND,24\$; 0202
	53		51	BLBC	APOST_FOUND,22\$; 0206
00V			52	MOVZWL	@4(R12),SCAN_INDEX	; 0210
00V			51	MOVL	4(R12),R1	; 0214
52	04	BC	3C	MOVL	4(R1),R1	
51	04	AC	D0	CMPB	-1(R1)[SCAN_INDEX],QUOTES	
51	04	A1	D0	BNEQ	20\$	
50	FF	A142	91	MOVZWL	@4(R12),R1	; 0218
		00V	12	MOVL	SCAN_INDEX,R3	
			52	CPL	R1,R3	
51	04	BC	3C	BLSS	17\$	
53		51	D1	MOVL	R1,INDEX	
53		00V	19	MOVL	4(R12),R4	; 0220
55		51	D0			
54	04	AC	D0			

Generated Code			
FFEO	56	04 AC	D0 000C3
	56	04 A6	D0 000C7
	04 B445	FF A645	90 000CB
	8F	53	F1 000D2
51 FFFFFFFF	8F	04 BC	B1 000DC 17\$:
00FE		00V	1E 000E2
		04 BC	B6 000E4
		52	D7 000E7 20\$:
	01	52	D1 000E9
		B3	18 000EC
	52	50	90 000EE
		00V	11 000F1
	52 00000000G	EF	90 000F3 22\$:
		00V	11 000FA
	52	50	90 000FC 24\$:
	50	04 BC	3C 000FF 25\$:
		00V	15 00103
	55	50	D0 00105 26\$:
	51	04 AC	D0 00108
	53	04 AC	D0 0010C
	53	04 A3	D0 00110
	04 B145	FF A345	90 00114
	E7	50	F5 0011B
	04 BC	02	A0 0011E 27\$:
	50	04 AC	D0 00122
	04 B0	52	90 00126
	50	04 BC	3C 0012A
	55	04 AC	D0 0012E
	55	04 A5	D0 00132
	FF A540	52	90 00136
		00V	11 0013B
	F8 AD 010E0002	8F	D0 0013D 29\$:
	FC AD 00000000G	EF	9E 00145
		F8 AD	9F 0014D
		04 AC	DD 00150
	00000000G EF	02	FB 00153
		04	0015A 30\$:
			RET

; Routine Size: 347 bytes, Routine Base: \$CODE + 00D4C

			00000	SHOW_PRIMARY:		: 0328
			0004 00000	.WORD	^M<R2>	
	5C 00000000G	EF	D0 00002	MOVL	DEF_CURRENT,R12	: 0335
	52 19	AC	90 00009	MOVB	25(R12),TEMP_PRI	: 0342
	50	52	9A 0000D	MOVZBL	TEMP_PRI,R0	: 0347
	7E 00000000GEF	40	9A 00010	MOVZBL	PRIMARY_WIDTH[R0],-(SP)	
	7E	52	9A 00018	MOVZBL	TEMP_PRI, -(SP)	
		EF	9F 0001B	PUSHAB	C.AAX	
	FFFFF138	EF	9F 00021	PUSHAB	FDL_DEST	
	00000000G	EF	9F 00027	CALLS	#4,PASSWRITE_ENUMERATED	
	00000000G EF	04	FB 0002E	MOVZBL	TEMP_PRI,R0	: 0352
	50	52	9A 00031	CPL	R0,#T6	
	10	50	D1 00034	BGEQU	3\$	
	00VFFFFF1F3	00V	1E 00036	BBC	R0,C.AAB,3\$	
		50	E1 0003E	PUSHL	#1	: 0354
		01	DD 00040	PUSHL	#32	
		20	DD 00042	PUSHAB	FDL_DEST	
		00000000G EF	9F 00042			

Generated Code			
00000000G	EF	03	FB 00048
		1A	AC 9F 0004F
00000000G	EF	01	FB 00052
		50	DD 00059
		1A	AC DD 0005B
00000000G	EF	03	FB 0005E
		52	9A 00064
		52	9A 0006B 3\$:
		52	D1 0006E
		00V	1E 00071
00VFFFFFF1B8	EF	52	E1 00073
		11	AC 9F 0007B
0D4C	CF	01	FB 0007E
		11	AC B5 00083
		00V	15 00086
		01	DD 00088
		09	DD 0008A
		EF	9F 0008C
00000000G	EF	03	FB 00092
		11	AC 3C 00099
		00	DD 0009D
		15	BC 9F 0009F
		000000FF	8F DD 000A2
		00000000G	EF 9F 000AB
00000000G	EF	05	FB 000AE
		04	000B5 7\$:
			CALLS #3,PASSWRITE_CHAR
			PUSHAB 26(R12)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 26(R12)
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_INTEGER
			MOVZBL TEMP_PRI,R2 ; 0359
			CMPL R2,#T6
			BGEQU 7\$
			BBC R2,C.AAC,7\$
			PUSHAB 17(R12) ; 0363
			CALLS #1,CHECK_QUOTES
			TSTW 17(R12) ; 0365
			BLEQ 7\$
			PUSHL #1 ; 0367
			PUSHL #9
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			MOVZWL 17(R12),-(SP)
			PUSHL #0
			PUSHAB @21(R12)
			PUSHL #255
			PUSHAB FDL_DEST
			CALLS #5,PASSWRITE_STRING
			RET ; 0374

; Routine Size: 182 bytes, Routine Base: \$CODE + 00EA7

Generated Code			
		00000	SHOW_SECONDARY: ; 0421
		000C	00000
		5C	00000000G EF D0 00002
		52	1E AC 90 00009
		50	52 9A 0000D
00000098	8F	50	D1 00010
		00V	1E 00017
03 FFFFF15E	EF	50	E1 00019
		0000V	31 00021
		01	DD 00024 2\$:
		09	DD 00026
		EF	9F 00028
00000000G	EF	03	FB 0002E
		52	9A 00035
		53	9E 00038
		7E	63 9A 00040
		7E	52 9A 00043
		FFrFF147	EF 9F 00046
		00000000G	EF 9F 0004C
00000000G	EF	04	FB 00052
		21	52 91 00059
		00V	12 0005C
00000100	8F	23	AC D1 0005E
		00V	1E 00066
00VFFFFFFB4E	EF	23	AC E0 00068
		FFFFFB68	EF 9F 00071 4\$:
		00000000G	04 DD 00077
			EF 9F 00079
			CALLS #4,PASSWRITE_ENUMERATED
			CMPL TEMP_SEC,#33 ; 0449
			BNEQ 5\$
			CMPL 35(R12),#256
			BGEQU 4\$
			BBS 35(R12),C.AAF,5\$
			PUSHAB C.AAG ; 0455
			PUSHL #4
			PUSHAB FDL_DEST

Generated Code								
00000000G	EF	03	FB	0007F	CALLS	#3,PASSWRITE_STRING		
		0000V	31	00086	BRW	19\$		
	08	63	91	00089	5\$:	CMPB	(R3),#8 ; 0457	
		00V	1E	0008C	BGEQU	7\$		
	FFFFFFB4F	EF	9F	0008E	PUSHAB	C.AAH	; 0459	
		02	DD	00094	PUSHL	#2		
	00000000G	EF	9F	00096	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	0009C	CALLS	#3,PASSWRITE_STRING		
		0000V	31	000A3	BRW	19\$		
	10	63	91	000A6	7\$:	CMPB	(R3),#16 ; 0461	
		03	1F	000A9	BLSSU	+3		
		0000V	31	000AB	BRW	19\$		
		01	DD	000AE	PUSHL	#1	; 0463	
		09	DD	000B0	PUSHL	#9		
	00000000G	EF	9F	000B2	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	000B8	CALLS	#3,PASSWRITE_CHAR		
		0000V	31	000BF	BRW	19\$		
	85	8F	52	91	000C2	12\$:	CMPB	TEMP_SEC,#-123 ; 0474
		00V	12	000C6	BNEQ	14\$		
	FFFFFFB19	EF	9F	000C8	PUSHAB	C.AAI	; 0476	
		04	DD	000CE	PUSHL	#4		
	00000000G	EF	9F	000D0	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	000D6	CALLS	#3,PASSWRITE_STRING		
		01	DD	000DD	PUSHL	#1		
	1F	AC	DD	000DF	PUSHL	31(R12)		
	00000000G	EF	9F	000E2	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	000E8	CALLS	#3,PASSWRITE_INTEGER		
	FFFFFFAF6	EF	9F	000EF	PUSHAB	C.AAJ		
		08	DD	000F5	PUSHL	#8		
	00000000G	EF	9F	000F7	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	000FD	CALLS	#3,PASSWRITE_STRING		
	86	8F	52	91	00104	14\$:	CMPB	TEMP_SEC,#-122 ; 0481
		00V	12	00108	BNEQ	16\$		
	FFFFFFAE3	EF	9F	0010A	PUSHAB	C.AAK	; 0483	
		04	DD	00110	PUSHL	#4		
	00000000G	EF	9F	00112	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	00118	CALLS	#3,PASSWRITE_STRING		
		01	DD	0011F	PUSHL	#1		
	1F	AC	DD	00121	PUSHL	31(R12)		
	00000000G	EF	9F	00124	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	0012A	CALLS	#3,PASSWRITE_INTEGER		
	FFFFFFAC0	EF	9F	00131	PUSHAB	C.AAL		
		0A	DD	00137	PUSHL	#10		
	00000000G	EF	9F	00139	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	0013F	CALLS	#3,PASSWRITE_STRING		
	87	8F	52	91	00146	16\$:	CMPB	TEMP_SEC,#-121 ; 0488
		00V	12	0014A	BNEQ	19\$		
	FFFFFFAB1	EF	9F	0014C	PUSHAB	C.AAM	; 0490	
		07	DD	00152	PUSHL	#7		
	00000000G	EF	9F	00154	PUSHAB	FDL_DEST		
00000000G	EF	03	FB	0015A	CALLS	#3,PASSWRITE_STRING		
		04	00161	19\$:	RET		; 0502	

; Routine Size: 354 bytes, Routine Base: \$CODE + 00F5D

0000 00000 SHOW_QUALIFIER:
0000 00000 .WORD *M<>

; 0548


```
28      50 00000000G EF DO 00002      MOVL DEF CURRENT,RO      ; 0555
      00      23 AO CF 00009      CASEL 35(RO),#0,#40
      0000V      0000E      .DISPL 1$
      0000V      00010      .DISPL 2$
      0000V      00012      .DISPL 3$
      0000V      00014      .DISPL 4$
      0000V      00016      .DISPL 5$
      0000V      00018      .DISPL 6$
      0000V      0001A      .DISPL 8$
      0000V      0001C      .DISPL 7$
      0000V      0001E      .DISPL 8$
      0000V      00020      .DISPL 15$
      0000V      00022      .DISPL 16$
      0000V      00024      .DISPL 17$
      0000V      00026      .DISPL 22$
      0000V      00028      .DISPL 18$
      0000V      0002A      .DISPL 23$
      0000V      0002C      .DISPL 24$
      0000V      0002E      .DISPL 19$
      0000V      00030      .DISPL 21$
      0000V      00032      .DISPL 20$
      0000V      00034      .DISPL 12$
      0000V      00036      .DISPL 13$
      0000V      00038      .DISPL 14$
      0000V      0003A      .DISPL 33$
      0000V      0003C      .DISPL 34$
      0000V      0003E      .DISPL 35$
      0000V      00040      .DISPL 36$
      0000V      00042      .DISPL 37$
      0000V      00044      .DISPL 38$
      0000V      00046      .DISPL 39$
      0000V      00048      .DISPL 11$
      0000V      0004A      .DISPL 10$
      0000V      0004C      .DISPL 9$
      0052      0004E      .DISPL 82
      0000V      00050      .DISPL 32$
      0000V      00052      .DISPL 29$
      0000V      00054      .DISPL 25$
      0000V      00056      .DISPL 30$
      0000V      00058      .DISPL 26$
      0000V      0005A      .DISPL 31$
      0000V      0005C      .DISPL 27$
      0000V      0005E      .DISPL 28$
      0000V      00060      BRW 40$
      FFFFA40 EF 9F 00063 1$:      PUSHAB C.AAN      ; 0557
      00000000G EF DD 00069      PUSHL #13
      03 FB 0006B      PUSHAB FDL_DEST
      0000V 31 00071      CALLS #3,PASSWRITE_STRING
      FFFFA38 EF 9F 00078 2$:      BRW 41$      ; 0558
      07 DD 00081      PUSHAB C.AAO
      00000000G EF 9F 00083      PUSHL #7
      03 FB 00089      PUSHAB FDL_DEST
      0000V 31 00090      CALLS #3,PASSWRITE_STRING
      FFFFA28 EF 9F 00093 3$:      BRW 41$      ; 0559
      08 DD 00099      PUSHAB C.AAP
      00000000G EF 9F 0009B      PUSHL #8
      PUSHAB FDL_DEST
```


Generated Code						
00000000G	EF	03	FB	000A1	CALLS	#3,PASSWRITE_STRING
		0000V	31	000A8	BRW	41\$
	FFFFFFA18	EF	9F	000AB	4\$: PUSHAB	C.AAQ ; 0560
		07	DD	000B1	PUSHL	#7
00000000G	EF	03	9F	000B3	PUSHAB	FDL DEST
		0000V	FB	000B9	CALLS	#3,PASSWRITE_STRING
	FFFFFFA08	EF	31	000C0	BRW	41\$
		09	9F	000C3	5\$: PUSHAB	C.AAR ; 0561
		07	DD	000C9	PUSHL	#9
00000000G	EF	03	9F	000CB	PUSHAB	FDL DEST
		0000V	FB	000D1	CALLS	#3,PASSWRITE_STRING
	FFFFFF9FC	EF	31	000D8	BRW	41\$
		07	9F	000DB	6\$: PUSHAB	C.AAS ; 0562
		07	DD	000E1	PUSHL	#7
00000000G	EF	03	9F	000E3	PUSHAB	FDL DEST
		0000V	FB	000E9	CALLS	#3,PASSWRITE_STRING
	FFFFFF9EC	EF	31	000F0	BRW	41\$
		07	9F	000F3	7\$: PUSHAB	C.AAT ; 0563
		07	DD	000F9	PUSHL	#7
00000000G	EF	03	9F	000FB	PUSHAB	FDL DEST
		0000V	FB	00101	CALLS	#3,PASSWRITE_STRING
	FFFFFF9DC	EF	31	00108	BRW	41\$
		05	9F	0010B	8\$: PUSHAB	C.AAU ; 0565
		07	DD	00111	PUSHL	#5
00000000G	EF	03	9F	00113	PUSHAB	FDL DEST
		0000V	FB	00119	CALLS	#3,PASSWRITE_STRING
	FFFFFF9CC	EF	31	00120	BRW	41\$
		08	9F	00123	9\$: PUSHAB	C.AAV ; 0566
		08	DD	00129	PUSHL	#8
00000000G	EF	03	9F	0012B	PUSHAB	FDL DEST
		0000V	FB	00131	CALLS	#3,PASSWRITE_STRING
	FFFFFF9BC	EF	31	00138	BRW	41\$
		09	9F	0013B	10\$: PUSHAB	C.AAW ; 0567
		09	DD	00141	PUSHL	#9
00000000G	EF	03	9F	00143	PUSHAB	FDL DEST
		0000V	FB	00149	CALLS	#3,PASSWRITE_STRING
	FFFFFF9B0	EF	31	00150	BRW	41\$
		0B	9F	00153	11\$: PUSHAB	C.AAX ; 0568
		0B	DD	00159	PUSHL	#11
00000000G	EF	03	9F	0015B	PUSHAB	FDL DEST
		0000V	FB	00161	CALLS	#3,PASSWRITE_STRING
	FFFFFF9A4	EF	31	00168	BRW	41\$
		14	9F	0016B	12\$: PUSHAB	C.AAY ; 0569
		14	DD	00171	PUSHL	#20
00000000G	EF	03	9F	00173	PUSHAB	FDL DEST
		0000V	FB	00179	CALLS	#3,PASSWRITE_STRING
	FFFFFF9A0	EF	31	00180	BRW	41\$
		13	9F	00183	13\$: PUSHAB	C.AAZ ; 0570
		13	DD	00189	PUSHL	#19
00000000G	EF	03	9F	0018B	PUSHAB	FDL DEST
		0000V	FB	00191	CALLS	#3,PASSWRITE_STRING
	FFFFFF99C	EF	31	00198	BRW	41\$
		11	9F	0019B	14\$: PUSHAB	C.ABA ; 0571
		11	DD	001A1	PUSHL	#17
00000000G	EF	03	9F	001A3	PUSHAB	FDL DEST
		0000V	FB	001A9	CALLS	#3,PASSWRITE_STRING
			31	001B0	BRW	41\$

	FFFFF998	EF	9F	001B3	15\$:	PUSHAB	C.ABB		: 0572
		10	DD	001B9		PUSHL	#16		
00000000G	EF	00000000G	EF	9F	001BB	PUSHAB	FDL DEST		
		03	FB	001C1		CALLS	#3,PASSWRITE_STRING		
		0000V	31	001C8		BRW	41\$		
	FFFFF990	EF	9F	001CB	16\$:	PUSHAB	C.ABC		: 0573
		08	DD	001D1		PUSHL	#8		
00000000G	EF	00000000G	EF	9F	001D3	PUSHAB	FDL DEST		
		03	FB	001D9		CALLS	#3,PASSWRITE_STRING		
		0000V	31	001E0		BRW	41\$		
	FFFFF980	EF	9F	001E3	17\$:	PUSHAB	C.ABD		: 0574
		06	DD	001E9		PUSHL	#6		
00000000G	EF	00000000G	EF	9F	001EB	PUSHAB	FDL DEST		
		03	FB	001F1		CALLS	#3,PASSWRITE_STRING		
		0000V	31	001F8		BRW	41\$		
	FFFFF970	EF	9F	001FB	18\$:	PUSHAB	C.ABE		: 0575
		06	DD	00201		PUSHL	#6		
00000000G	EF	00000000G	EF	9F	00203	PUSHAB	FDL DEST		
		03	FB	00209		CALLS	#3,PASSWRITE_STRING		
		0000V	31	00210		BRW	41\$		
	FFFFF960	EF	9F	00213	19\$:	PUSHAB	C.ABF		: 0576
		07	DD	00219		PUSHL	#7		
00000000G	EF	00000000G	EF	9F	0021B	PUSHAB	FDL DEST		
		03	FB	00221		CALLS	#3,PASSWRITE_STRING		
		0000V	31	00228		BRW	41\$		
	FFFFF950	EF	9F	0022B	20\$:	PUSHAB	C.ABG		: 0577
		0A	DD	00231		PUSHL	#10		
00000000G	EF	00000000G	EF	9F	00233	PUSHAB	FDL DEST		
		03	FB	00239		CALLS	#3,PASSWRITE_STRING		
		0000V	31	00240		BRW	41\$		
	FFFFF944	EF	9F	00243	21\$:	PUSHAB	C.ABH		: 0578
		0A	DD	00249		PUSHL	#10		
00000000G	EF	00000000G	EF	9F	0024B	PUSHAB	FDL DEST		
		03	FB	00251		CALLS	#3,PASSWRITE_STRING		
		0000V	31	00258		BRW	41\$		
	FFFFF938	EF	9F	0025B	22\$:	PUSHAB	C.ABI		: 0579
		0A	DD	00261		PUSHL	#10		
00000000G	EF	00000000G	EF	9F	00263	PUSHAB	FDL DEST		
		03	FB	00269		CALLS	#3,PASSWRITE_STRING		
		0000V	31	00270		BRW	41\$		
	FFFFF92C	EF	9F	00273	23\$:	PUSHAB	C.ABJ		: 0580
		09	DD	00279		PUSHL	#9		
00000000G	EF	00000000G	EF	9F	0027B	PUSHAB	FDL DEST		
		03	FB	00281		CALLS	#3,PASSWRITE_STRING		
		0000V	31	00288		BRW	41\$		
	FFFFF920	EF	9F	0028B	24\$:	PUSHAB	C.ABK		: 0581
		04	DD	00291		PUSHL	#4		
00000000G	EF	00000000G	EF	9F	00293	PUSHAB	FDL DEST		
		03	FB	00299		CALLS	#3,PASSWRITE_STRING		
		0000V	31	002A0		BRW	41\$		
	FFFFF90C	EF	9F	002A3	25\$:	PUSHAB	C.ABL		: 0582
		05	DD	002A9		PUSHL	#5		
00000000G	EF	00000000G	EF	9F	002AB	PUSHAB	FDL DEST		
		03	FB	002B1		CALLS	#3,PASSWRITE_STRING		
		0000V	31	002B8		BRW	41\$		
	FFFFF8FC	EF	9F	002BB	26\$:	PUSHAB	C.ABM		: 0583
		05	DD	002C1		PUSHL	#5		

00000000G	EF	00000000G	EF	9F 002C3	PUSHAB	FDL DEST	
			03	FB 002C9	CALLS	#3, PASSWRITE_STRING	
		0000V	31	002D0	BRW	41\$	
		FFFFF8EC	EF	9F 002D3	PUSHAB	C.ABN	: 0584
			05	DD 002D9	PUSHL	#5	
00000000G	EF	00000000G	EF	9F 002DB	PUSHAB	FDL DEST	
			03	FB 002E1	CALLS	#3, PASSWRITE_STRING	
		0000V	31	002E8	BRW	41\$	
		FFFFF8DC	EF	9F 002EB	PUSHAB	C.ABO	: 0585
			08	DD 002F1	PUSHL	#8	
00000000G	EF	00000000G	EF	9F 002F3	PUSHAB	FDL DEST	
			03	FB 002F9	CALLS	#3, PASSWRITE_STRING	
		0000V	31	00300	BRW	41\$	
		FFFFF8CC	EF	9F 00303	PUSHAB	C.ABP	: 0586
			05	DD 00309	PUSHL	#5	
00000000G	EF	00000000G	EF	9F 0030B	PUSHAB	FDL DEST	
			03	FB 00311	CALLS	#3, PASSWRITE_STRING	
		0000V	31	00318	BRW	41\$	
		FFFFF8BC	EF	9F 0031B	PUSHAB	C.ABQ	: 0587
			05	DD 00321	PUSHL	#5	
00000000G	EF	00000000G	EF	9F 00323	PUSHAB	FDL DEST	
			03	FB 00329	CALLS	#3, PASSWRITE_STRING	
		0000V	31	00330	BRW	41\$	
		FFFFF8AC	EF	9F 00333	PUSHAB	C.ABR	: 0588
			05	DD 00339	PUSHL	#5	
00000000G	EF	00000000G	EF	9F 0033B	PUSHAB	FDL DEST	
			03	FB 00341	CALLS	#3, PASSWRITE_STRING	
		0000V	31	00348	BRW	41\$	
		FFFFF89C	EF	9F 0034B	PUSHAB	C.ABS	: 0589
			07	DD 00351	PUSHL	#7	
00000000G	EF	00000000G	EF	9F 00353	PUSHAB	FDL DEST	
			03	FB 00359	CALLS	#3, PASSWRITE_STRING	
		0000V	31	00360	BRW	41\$	
		FFFFF88C	EF	9F 00363	PUSHAB	C.ABT	: 0590
			04	DD 00369	PUSHL	#4	
00000000G	EF	00000000G	EF	9F 0036B	PUSHAB	FDL DEST	
			03	FB 00371	CALLS	#3, PASSWRITE_STRING	
		0000V	31	00378	BRW	41\$	
		FFFFF878	EF	9F 0037B	PUSHAB	C.ABU	: 0591
			07	DD 00381	PUSHL	#7	
00000000G	EF	00000000G	EF	9F 00383	PUSHAB	FDL DEST	
			03	FB 00389	CALLS	#3, PASSWRITE_STRING	
		00V	11	00390	BRB	41\$	
		FFFFF869	EF	9F 00392	PUSHAB	C.ABV	: 0592
			08	DD 00398	PUSHL	#8	
00000000G	EF	00000000G	EF	9F 0039A	PUSHAB	FDL DEST	
			03	FB 003A0	CALLS	#3, PASSWRITE_STRING	
		00V	11	003A7	BRB	41\$	
		FFFFF85A	EF	9F 003A9	PUSHAB	C.ABW	: 0593
			0D	DD 003AF	PUSHL	#13	
00000000G	EF	00000000G	EF	9F 003B1	PUSHAB	FDL DEST	
			03	FB 003B7	CALLS	#3, PASSWRITE_STRING	
		00V	11	003BE	BRB	41\$	
		FFFFF853	EF	9F 003C0	PUSHAB	C.ABX	: 0594
			06	DD 003C6	PUSHL	#6	
00000000G	EF	00000000G	EF	9F 003C8	PUSHAB	FDL DEST	
			03	FB 003CE	CALLS	#3, PASSWRITE_STRING	

		FFFFF844	00V	11	003D5	BRB	41\$		
			EF	9F	003D7	PUSHAB	C,ABY		: 0595
			08	DD	003DD	PUSHL	#8		
00000000G	EF	00000000G	EF	9F	003DF	PUSHAB	FDL_DEST		
			03	FB	003E5	CALLS	#3,PASSWRITE_STRING		
		FFFFF835	00V	11	003EC	BRB	41\$		
			EF	9F	003EE	PUSHAB	C,ABZ		: 0596
			08	DD	003F4	PUSHL	#8		
00000000G	EF	00000000G	EF	9F	003F6	PUSHAB	FDL_DEST		
			03	FB	003FC	CALLS	#3,PASSWRITE_STRING		
			00V	11	00403	BRB	41\$		
					00405				
				04	00405	40\$:			
						41\$:	RET		: 0604

; Routine Size: 1030 bytes, Routine Base: \$CODE + 010BF

					00000	SHOW_CURRENT:			: 0656
				0004	00000	.WORD	^M<R2>		
				C2	00002	SUBL2	#20,SP		
				BC	90	MOVB	@4(R12),PLUS_VALUE		
00V00000000G	5E		14	00	E1	BBC	#0,DEST_IS_TERMINAL,2\$: 0688
	5C	04	BC	90	00005	PUSHAB	SHIFT		: 0690
	EF		00	E1	00009	PUSHL	#4		
		00000000G	EF	9F	00011	PUSHAB	FDL_DEST		
			04	DD	00017	CALLS	#3,PASSWRITE_STRING		
00000000G	EF	00000000G	EF	9F	00019	MOVL	DEF_CURRENT,R0		: 0695
	50		03	FB	0001F	MOVZBL	(R0),R0		
	50	00000000G	EF	D0	00026	CASEB	R0,#0,#2		
02	00		60	9A	0002D	.DISPL	3\$		
			50	8F	00030	.DISPL	9\$		
					0000V	.DISPL	51\$		
					0000V	BRW	55\$		
					0000V	MOVL	DEF_CURRENT,R2		: 0699
					0000V	CALLS	#0,SHOW_PRIMARY		: 0706
0EA7	52	00000000G	EF	D0	0003D	BLBC	PLUS_VALUE,8\$: 0711
	CF		00	FB	00044	TSTW	9(R2)		: 0716
	00V		5C	E9	00049	BLEQ	8\$		
		09	A2	B5	0004C	PUSHL	#1		: 0718
			00V	15	0004F	PUSHL	#9		
			01	DD	00051	PUSHAB	FDL_DEST		
		00000000G	EF	9F	00053	CALLS	#3,PASSWRITE_CHAR		
			09	DD	00053	MOVZWL	9(R2),-(SP)		
00000000G	EF		03	FB	0005B	PUSHL	#0		
	7E		A2	3C	00062	PUSHAB	@13(R2)		
		0D	00	DD	00066	PUSHL	#255		
			B2	9F	00068	PUSHAB	FDL_DEST		
		000000FF	8F	DD	0006B	CALLS	#5,PASSWRITE_STRING		
00000000G	EF	00000000G	EF	9F	00071	PUSHAB	FDL_DEST		: 0724
			05	FB	00077	CALLS	#1,PASSWRITELN2		
00000000G	EF	00000000G	EF	9F	0007E	BRW	56\$		
			01	FB	00084	MOVL	DEF_CURRENT,R2		: 0730
			0000V	31	0008B	CALLS	#0,SHOW_SECONDARY		: 0737
		00000000G	EF	D0	0008E	BLBS	PLUS_VALUE,..+3		: 0742
0F5D	52		00	FB	00095	BRW	50\$		
	CF		5C	E8	0009A	MOVZBL	30(R2),R12		: 0749
	03		0000V	31	0009D	MULL2	#4,R12		
				A2	9A	BBC	R12,SEC_TYPE,15\$		
	5C	1E	04	C4	000A4				
00V00000000G	5C		04	C4	000A4				
	EF		5C	E1	000A7				

Generated Code									
0D4C	CF	11	A2	9F	000AF	PUSHAB	17(R2)		: 0753
		11	01	FB	000B2	CALLS	#1,CHECK_QUOTES		
			A2	B5	000B7	TSTW	17(R2)		: 0755
			00V	15	000BA	BLEQ	15\$		
			01	DD	000BC	PUSHL	#1		: 0757
			09	DD	000BE	PUSHL	#9		
00000000G	EF	00000000G	EF	9F	000C0	PUSHAB	FDL_DEST		
	7E		03	FB	000C6	CALLS	#3,PASSWRITE_CHAR		
			A2	3C	000CD	MOVZWL	17(R2),-(SP)		
			00	DD	000D1	PUSHL	#0		
			B2	9F	000D3	PUSHAB	@21(R2)		
		15	8F	DD	000D6	PUSHL	#255		
00000000G	EF	000000FF	EF	9F	000DC	PUSHAB	FDL_DEST		
		00000000G	05	FB	000E2	CALLS	#5,PASSWRITE_STRING		
	50		A2	9A	000E9	MOVZBL	30(R2),R0		: 0765
	50		04	C4	000ED	MULL2	#4,R0		
	50		02	C0	000F0	ADDL2	#2,R0		
00V00000000G	EF		50	E1	000F3	BBC	R0,SEC_TYPE,17\$		
10BF	CF		00	FB	000FB	CALLS	#0,SHOW_QUALIFIER		: 0767
	50		A2	9A	00100	MOVZBL	30(R2),R0		: 0772
	50		04	C4	00104	MULL2	#4,R0		
			50	D6	00107	INCL	R0		
00V00000000G	EF		50	E1	00109	BBC	R0,SEC_TYPE,19\$		
			01	DD	00111	PUSHL	#1		: 0777
			09	DD	00113	PUSHL	#9		
00000000G	EF	00000000G	EF	9F	00115	PUSHAB	FDL_DEST		
			03	FB	0011B	CALLS	#3,PASSWRITE_CHAR		
00000000G	EF	27	A2	9F	00122	PUSHAB	39(R2)		
			01	FB	00125	CALLS	#1,NUM_LEN		
			50	DD	0012C	PUSHL	R0		
		27	A2	DD	0012E	PUSHL	39(R2)		
00000000G	EF	00000000G	EF	9F	00131	PUSHAB	FDL_DEST		
	50		03	FB	00137	CALLS	#3,PASSWRITE_INTEGER		
	50		A2	9A	0013E	MOVZBL	30(R2),R0		: 0782
	50		04	C4	00142	MULL2	#4,R0		
00V00000000G	EF		03	C0	00145	ADDL2	#3,R0		
00V	2B	A2	50	E1	00148	BBC	R0,SEC_TYPE,24\$		
			00	E1	00150	BBC	#0,43(R2),22\$: 0784
		FFFFF6D0	EF	9F	00155	PUSHAB	C.ACA		: 0786
			04	DD	0015B	PUSHL	#4		
00000000G	EF	00000000G	EF	9F	0015D	PUSHAB	FDL_DEST		
			03	FB	00163	CALLS	#3,PASSWRITE_STRING		
		FFFFF6BD	00V	11	0016A	BRB	24\$		
			EF	9F	0016C	PUSHAB	C.ACB		: 0790
			03	DD	00172	PUSHL	#3		
00000000G	EF	00000000G	EF	9F	00174	PUSHAB	FDL_DEST		
	83		03	FB	0017A	CALLS	#3,PASSWRITE_STRING		
	8F		A2	91	00181	CMPB	30(R2),#-125		: 0792
			00V	13	00186	BEQL	26\$		
59	8F		A2	91	00188	CMPB	30(R2),#89		
			00V	12	0018D	BNEQ	31\$		
	20	27	A2	D1	0018F	CMPL	39(R2),#32		: 0800
			00V	19	00193	BLSS	28\$		
27	A2	7E	00	ED	00195	CMPZV	#0,#7,#*X7E,39(R2)		
		8F	00V	18	0019C	BGEQ	29\$		
		07	01	DD	0019E	PUSHL	#1		: 0806
			09	DD	001A0	PUSHL	#9		

Generated Code			
00000000G	EF	00000000G	EF 9F 001A2
		27	03 FB 001A8
00000000G	EF		A2 9F 001AF
		27	01 FB 001B2
		50	DD 001B9
		27	A2 DD 001BB
00000000G	EF	00000000G	EF 9F 001BE
			03 FB 001C4
		FFFFF660	00V 11 001CB
			EF 9F 001CD 29\$:
		00000000G	02 DD 001D3
00000000G	EF		EF 9F 001D5
		27	01 DD 001E2
		00000000G	A2 DD 001E4
			EF 9F 001E7
00000000G	EF		03 FB 001ED
		27	01 DD 001F4
		00000000G	27 DD 001F6
			EF 9F 001F8
00000000G	EF		03 FB 001FE
	21	1E	A2 91 00205 31\$:
			03 13 00209
		0000V	31 0020B
10BF	CF		00 FB 0020E
00000100	8F	23	A2 D1 00213
			00V 1E 0021B
00VFFFFFF611	EF	23	A2 E1 0021D
			01 DD 00226
		00000000G	09 DD 00228
			EF 9F 0022A
00000000G	EF		03 FB 00230
		27	A2 9F 00237
00000000G	EF		01 FB 0023A
		27	50 DD 00241
		00000000G	A2 DD 00243
			EF 9F 00246
00000000G	EF		03 FB 0024C
		0000V	31 00253
01	03	23	A2 CF 00256 34\$:
		0000V	0025B
		0000V	0025D
		0000V	31 0025F 35\$:
		FFFFF5EF	EF 9F 00262
			02 DD 00268
		00000000G	EF 9F 0026A
00000000G	EF		03 FB 00270
		34	A2 9F 00277
00000000G	EF		01 FB 0027A
		34	50 DD 00281
		00000000G	A2 DD 00283
			EF 9F 00286
00000000G	EF		03 FB 0028C
			01 DD 00293
		2C	DD 00295
		00000000G	EF 9F 00297
00000000G	EF		03 FB 0029D
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_CHAR
			PUSHAB 39(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 39(R2)
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_INTEGER
			BRB 31\$
			PUSHAB C,ACC ; 0810
			PUSHL #2
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_STRING
			PUSHL #1
			PUSHL 39(R2)
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_CHAR
			PUSHL #1
			PUSHL #39
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_CHAR
			CMPB 30(R2),#33 ; 0817
			BEQL .+3
			BRW 42\$
			CALLS #0,SHOW_QUALIFIER ; 0821
			CMPB 35(R2),#256 ; 0823
			BGEQU 34\$
			BBC 35(R2),C.ACD,34\$
			PUSHL #1 ; 0830
			PUSHL #9
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_CHAR
			PUSHAB 39(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 39(R2)
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_INTEGER
			BRW 42\$
			CASEL 35(R2),#3,#1 ; 0836
			.DISPL 35\$
			.DISPL 36\$
			BRW 39\$
			PUSHAB C,ACE ; 0842
			PUSHL #2
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_STRING
			PUSHAB 52(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 52(R2)
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_INTEGER
			PUSHL #1
			PUSHL #44
			PUSHAB FDL DEST
			CALLS #3,PASSWRITE_CHAR

Generated Code			
00000000G	EF	38	A2 9F 002A4
			01 FB 002A7
		38	50 DD 002AE
			A2 DD 002B0
00000000G	EF	00000000G	EF 9F 002B3
			03 FB 002B9
			01 DD 002C0
			2C DD 002C2
00000000G	EF	00000000G	EF 9F 002C4
			03 FB 002CA
00000000G	EF	3C	A2 9F 002D1
			01 FB 002D4
			50 DD 002DB
		3C	A2 DD 002DD
00000000G	EF	00000000G	EF 9F 002E0
			03 FB 002E6
			01 DD 002ED
			29 DD 002EF
00000000G	EF	00000000G	EF 9F 002F1
			03 FB 002F7
			00V 11 002FE
0D4C	CF	11	A2 9F 00300 36\$:
			01 FB 00303
		11	A2 B5 00308
			00V 15 0030B
			01 DD 0030D
			09 DD 0030F
00000000G	EF	00000000G	EF 9F 00311
	7E		03 FB 00317
		11	A2 3C 0031E
			00 DD 00322
		15	B2 9F 00324
		000000FF	8F DD 00327
		00000000G	EF 9F 0032D
00000000G	EF		05 FB 00333
			00V 11 0033A
			0033C 39\$:
63	8F	1E	A2 91 0033C 42\$:
			00V 12 00341
00000000G	EF	2C	A2 D0 00343
		00000000G	EF 9F 0034B
F4	AD	010E00FF	8F D0 00351
F8	AD	00000000G	EF 9E 00359
		F4	AD 9F 00361
		FC	AD 9F 00364
EC	AD	010E0005	8F D0 00367
FO	AD	FFFFFF4E4	EF 9E 0036F
		EC	AD 9F 00377
00000000G	EF		04 FB 0037A
	7E	FC	AD 32 00381
			00 DD 00385
		00000000G	EF 9F 00387
		000000FF	8F DD 0038D
		00000000G	EF 9F 00393
00000000G	EF		05 FB 00399
65	8F	1E	A2 91 003A0 45\$:
			03 13 003A5
			PUSHAB 56(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 56(R2)
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_INTEGER
			PUSHL #1
			PUSHL #44
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			PUSHAB 60(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 60(R2)
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_INTEGER
			PUSHL #1
			PUSHL #41
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			BRB 42\$
			PUSHAB 17(R2)
			CALLS #1,CHECK_QUOTES
			TSTW 17(R2)
			BLEQ 42\$
			PUSHL #1
			PUSHL #9
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			MOVZWL 17(R2),-(SP)
			PUSHL #0
			PUSHAB @21(R2)
			PUSHL #255
			PUSHAB FDL_DEST
			CALLS #5,PASSWRITE_STRING
			BRB 42\$
			CMPB 30(R2),#99
			BNEQ 45\$
			MOVL 44(R2),TEMP_INT2
			PUSHAB TEMP_INT2
			MOVL #17694975,-12(FP)
			MOVAB TEMP_STRING255,-8(FP)
			PUSHAB -12(FP)
			PUSHAB RETLEN
			MOVL #17694725,-20(FP)
			MOVAB C.ACF,-16(FP)
			PUSHAB -20(FP)
			CALLS #4,SYSSFAOL
			CVTWL RETLEN,-(SP)
			PUSHL #0
			PUSHAB TEMP_STRING255
			PUSHL #255
			PUSHAB FDL_DEST
			CALLS #5,PASSWRITE_STRING
			CMPB 30(R2),#101
			BEQL .+3

: 0853

: 0855

: 0857

: 0876

: 0880

: 0881

: 0882

: 0889

		0000V	31	003A7	BRW	47\$	
	FFFFF4B3	EF	9F	003AA	PUSHAB	C.ACG	: 0893
		09	DD	003B0	PUSHL	#9	
00000000G	00000000G	EF	9F	003B2	PUSHAB	FDL_DEST	
	00000000	03	FB	003B8	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	003BF	PUSHAL	#0	: 0894
0000V	CF	A2	9F	003C5	PUSHAB	48(R2)	
	FFFFF49C	02	FB	003C8	CALLS	#2,SHOW_PROT	
		EF	9F	003CD	PUSHAB	C.ACH	: 0895
	00000000G	08	DD	003D3	PUSHL	#8	
00000000G	00000000G	EF	9F	003D5	PUSHAB	FDL_DEST	
	00000004	03	FB	003DB	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	003E2	PUSHAL	#4	: 0896
0000V	CF	A2	9F	003E8	PUSHAB	48(R2)	
	FFFFF481	02	FB	003EB	CALLS	#2,SHOW_PROT	
		EF	9F	003F0	PUSHAB	C.ACI	: 0897
	00000000G	08	DD	003F6	PUSHL	#8	
00000000G	00000000G	EF	9F	003F8	PUSHAB	FDL_DEST	
	00000008	03	FB	003FE	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	00405	PUSHAL	#8	: 0898
0000V	CF	A2	9F	0040B	PUSHAB	48(R2)	
	FFFFF466	02	FB	0040E	CALLS	#2,SHOW_PROT	
		EF	9F	00413	PUSHAB	C.ACJ	: 0899
	00000000G	08	DD	00419	PUSHL	#8	
00000000G	00000000G	EF	9F	0041B	PUSHAB	FDL_DEST	
	0000000C	03	FB	00421	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	00428	PUSHAL	#12	: 0900
0000V	CF	A2	9F	0042E	PUSHAB	48(R2)	
		02	FB	00431	CALLS	#2,SHOW_PROT	
		01	DD	00436	PUSHL	#1	: 0901
	00000000G	29	DD	00438	PUSHL	#41	
00000000G	00000000G	EF	9F	0043A	PUSHAB	FDL_DEST	
	09	03	FB	00440	CALLS	#3,PASSWRITE_CHAR	
		A2	B5	00447	TSTW	9(R2)	: 0908
		00V	15	0044A	BLEQ	49\$	
		01	DD	0044C	PUSHL	#1	: 0910
		09	DD	0044E	PUSHL	#9	
00000000G	00000000G	EF	9F	00450	PUSHAB	FDL_DEST	
	09	03	FB	00456	CALLS	#3,PASSWRITE_CHAR	
	0D	A2	3C	0045D	MOVZWL	9(R2),-(SP)	
		00	DD	00461	PUSHL	#0	
	000000FF	B2	9F	00463	PUSHAB	@13(R2)	
	00000000G	8F	DD	00466	PUSHL	#255	
00000000G	00000000G	EF	9F	0046C	PUSHAB	FDL_DEST	
		05	FB	00472	CALLS	#5,PASSWRITE_STRING	
00000000G	00000000G	EF	9F	00479	PUSHAB	FDL_DEST	: 0916
		01	FB	0047F	CALLS	#1,PASSWriteln2	
		00V	11	00486	BRB	56\$	
50	00000000G	EF	DD	00488	MOVL	DEF CURRENT,R0	: 0924
	09	A0	B5	0048F	TSTW	9(R0)	: 0931
		00V	15	00492	BLEQ	56\$	
7E	09	A0	3C	00494	MOVZWL	9(R0),-(SP)	: 0933
		00	DD	00498	PUSHL	#0	
	0D	B0	9F	0049A	PUSHAB	@13(R0)	
	000000FF	8F	DD	0049D	PUSHL	#255	
00000000G	00000000G	EF	9F	004A3	PUSHAB	FDL_DEST	
		05	FB	004A9	CALLS	#5,PASSWRITE_STRING	

Generated Code								
00000000G	EF	00000000G	EF	9F	004B0	PUSHAB	FDL_DEST	
			01	FB	004B6	CALLS	#1,PASSWRITELN2	
			00V	11	004BD	BRB	56\$	
					004BF			
03 00000000G	EF	00000000G	EF	D6	004BF	55\$: INCL	LINES_SHOWN	: 0947
			00	E0	004C5	56\$: BBS	#0_DEST_IS_TERMINAL,.,+3	: 0949
			0000V	31	004CD	BRW	66\$	
50 00000000G	EF	00000000G	EF	D0	004D0	MOVL	DEF_CURRENT,R0	: 0953
		01	A0	D5	004D7	TSTL	1(R0)	
			00V	13	004DA	BEQL	63\$	
50 00000000G	EF	00000000G	EF	C3	004DC	SUBL3	LINES_SHOWN,LINES_PER_PAGE,R0	: 0955
			03	C2	004E8	SUBL2	#3,R0	
			50	D1	004EB	CMPL	R0,#4	
			00V	18	004EE	BGEQ	63\$	
			50	D0	004F0	MOVL	DEF_CURRENT,R0	
			52	D0	004F7	MOVL	DEF_CURRENT,R2	
			52	A2	004FE	MOVL	1(R2),R2	
19	A2	19	A0	91	00502	CMPB	25(R0),25(R2)	
			00V	12	00507	BNEQ	61\$	
			52	D0	00509	MOVL	DEF_CURRENT,R2	
			50	D0	00510	MOVL	DEF_CURRENT,R0	
			50	A0	00517	MOVL	1(R0),R0	
1A	A0	1A	A2	D1	0051B	CMPL	26(R2),26(R0)	
			00V	13	00520	BEQL	63\$	
					00522	61\$: CLRL	LINES_SHOWN	: 0969
					00528	PUSHAL	#2	: 0970
00000000G	EF	00000000G	EF	D4	0052E	CALLS	#1,CLEAR	
50 00000000G	EF	00000000G	EF	C3	00535	56\$: SUBL3	#3,LINES_PER_PAGE,R0	: 0974
			50	D1	0053D	CMPL	LINES_SHOWN,R0	
			00V	19	00544	BLSS	66\$	
					00546	CLRL	LINES_SHOWN	: 0984
					0054C	PUSHAL	#2	: 0985
00000000G	EF	00000000G	EF	D4	00552	CALLS	#1,CLEAR	
			01	FB	00552	RET		: 0991
					00559	66\$: RET		

; Routine Size: 1370 bytes, Routine Base: \$CODE + 014C5

					00000	SHOW_PROT:		: 0661
					00004	.WORD		
	52	04	BC	D0	00002	MOVL	#4(R12),PROTECTION	
	5C	08	BC	D0	00006	MOVL	#8(R12),FIELD_OFFSET	
00V	52		5C	E1	0000A	BBC	FIELD_OFFSET,PROTECTION,2\$: 0665
			01	DD	0000E	PUSHL	#1	: 0667
	7E	52	8F	9A	00010	MOVZBL	#82,-(SP)	
			EF	9F	00014	PUSHAB	FDL_DEST	
00000000G	EF	00000000G	EF	03	FB	CALLS	#3,PASSWRITE_CHAR	
			50	AC	9E	00021	2\$: MOVAB	1(FIELD_OFFSET),R0
00V	52		50	E1	00025	BBC	R0,PROTECTION,4\$: 0669
			01	DD	00029	PUSHL	#1	: 0671
	7E	57	8F	9A	0002B	MOVZBL	#87,-(SP)	
			EF	9F	0002F	PUSHAB	FDL_DEST	
00000000G	EF	00000000G	EF	03	FB	CALLS	#3,PASSWRITE_CHAR	
			50	AC	9E	0003C	4\$: MOVAB	2(FIELD_OFFSET),R0
00V	52		50	E1	00040	BBC	R0,PROTECTION,6\$: 0673
			01	DD	00044	PUSHL	#1	: 0675
	7E	45	8F	9A	00046	MOVZBL	#69,-(SP)	
			EF	9F	0004A	PUSHAB	FDL_DEST	

Generated Code

00000000G	EF		03	FB	00050	CALLS	#3,PASSWRITE_CHAR	
00V	5C	03	AC	9E	00057	6\$: MOVAB	3(FIELD_OFFSET),R12	; 0677
	52		5C	E1	0005B	BBC	R12,PROTECTION,8\$	
	7E	44	01	DD	0005F	PUSHL	#1	; 0679
			8F	9A	00061	MOVZBL	#68,-(SP)	
00000000G	EF	00000000G	EF	9F	00065	PUSHAB	FDL_DEST	
			03	FB	0006B	CALLS	#3,PASSWRITE_CHAR	
			04	00072	8\$: RET			; 0681

; Routine Size: 115 bytes, Routine Base: \$CODE + 01A1F

				00000	GENERATE_FDL:		; 1041	
			0004	00000	.WORD	^M<R2>		
00000000G	EF	00000000G	EF	D0	00002	MOVL	DEF_HEAD,DEF_CURRENT	; 1052
	5C		00	D2	0000D	MCOML	#0,PREV_PRINUM	; 1057
		00000000G	EF	D4	00010	CLRL	LINES_SHOWN	; 1062
		00000000G	EF	D5	00016	TSTL	DEF_CURRENT	; 1067
			00V	13	0001C	BEQL	11\$	
	50	00000000G	EF	D0	0001E	2\$: MOVL	DEF_CURRENT,R0	; 1082
			5C	D5	00025	TSTL	PREV_PRINUM	; 1086
			00V	18	00027	BGEQ	5\$	
	52	19	A0	90	00029	MOVB	25(R0),PREV_PRIMARY	; 1093
	5C	1A	A0	D0	0002D	MOVL	26(R0),PREV_PRINUM	; 1094
			00V	11	00031	BRB	9\$	
1A	A0		5C	D1	00033	5\$: CMPL	PREV_PRINUM,26(R0)	; 1105
			00V	12	00037	BNEQ	7\$	
19	A0		52	91	00039	CMPB	PREV_PRIMARY,25(R0)	
			00V	13	0003D	BEQL	9\$	
	52	19	A0	90	0003F	7\$: MOVB	25(R0),PREV_PRIMARY	; 1111
	5C	1A	A0	D0	00043	MOVL	26(R0),PREV_PRINUM	; 1112
		00000000G	EF	9F	00047	PUSHAB	FDL_DEST	; 1117
00000000G	EF		01	FB	0004D	CALLS	#1,PASSWriteln2	
		00000000G	EF	D6	00054	INCL	LINES_SHOWN	; 1118
		01	8F	9F	0005A	9\$: PUSHAB	#1	; 1126
14C5	CF		01	FB	0005D	CALLS	#1,SHOW_CURRENT	
00000000G	EF		00	FB	00062	CALLS	#0,INCR_CURRENT	; 1127
		00000000G	EF	D5	00069	TSTL	DEF_CURRENT	
			AD	12	0006F	BNEQ	2\$	
			04	00071	11\$: RET			; 1133

; Routine Size: 114 bytes, Routine Base: \$CODE + 01A92

				00000	VIEW_DEF:		; 1183	
			0000	00000	.WORD	^M<>		
00000000G	EF	00000003	8F	DF	00002	PUSHAL	#3	; 1190
00000000G	EF		01	FB	00008	CALLS	#1,CLEAR	
		00V	01	90	0000F	MOVB	#1,DEST_IS_TERMINAL	; 1196
			AF	9F	00016	PUSHAB	1\$; 1198
			19	DD	00019	PUSHL	#25	
		00000000G	EF	9F	0001B	PUSHAB	FDL_DEST	
00000000G	EF		03	FB	00021	CALLS	#3,PASSCLOSE2	
		000000FC	8F	DD	00028	1\$: PUSHL	#252	; 1199
			07	DD	0002E	PUSHL	#7	
			04	DD	00030	PUSHL	#4	
		00000000G	EF	9F	00032	PUSHAB	SY\$OUTPUT_NAME	
			0B	DD	00038	PUSHL	#11	
			01	DD	0003A	PUSHL	#1	

Generated Code

00000000G	EF	00000000G	EF	9F	0003C	PUSHAB	FDL DEST		
			07	FB	00042	CALLS	#7,PASS\$OPEN2		
00000000G	EF	00000000G	EF	9F	00049	PUSHAB	FDL DEST		: 1200
1A92	CF		01	FB	0004F	CALLS	#1,PASS\$REWRITE2		
00000000G	EF	00000000G	00	FB	00056	CALLS	#0,GENERATE_FDL		: 1205
00V00000000G	EF		EF	9F	0005B	PUSHAB	FDL DEST		: 1210
			01	FB	00061	CALLS	#1,PASS\$CLOSE2		
	EF		00	E0	00068	BBS	#0,CONTROL_ZEE_TYPED,4\$: 1215
		00000000G	EF	D5	00070	TSTL	LINES_SHOWN		
			00V	13	00076	BEQL	4\$		
		00000000G	EF	9F	00078	PUSHAB	PASS\$V OUTPUT		: 1219
00000000G	EF		01	FB	0007E	CALLS	#1,PASS\$WRITELN2		
		000000002	8F	DF	00085	PUSHAL	#2		: 1220
00000000G	EF		01	FB	0008B	CALLS	#1,CLEAR		: 1224
			04	00092	4\$:	RET			

; Routine Size: 147 bytes, Routine Base: \$CODE + 01B04

					003C	00000	.ENTRY	SHOW_PRIMARY_SECTION,^M<R2,R3,R4,R5>	: 1276
			SE	C0	AE	9E	MOVAB	-64(SP),SP	
CO	AD	04	BC	0040	8F	28	MOVC3	#64,24(R12),TEST	
				00000000G	EF	D4	CLRL	LINES_SHOWN	: 1286
00000000G	EF	00000000G		00000000G	EF	D0	MOVL	DEF_HEAD,DEF_CURRENT	: 1291
					5C	94	CLRB	AT_PRIMARY	: 1292
				00	8F	9F	PUSHAB	#0	: 1299
			C0		AD	9F	PUSHAB	TEST	
00000000G	EF			02	FB	00027	CALLS	#2,CURRENT_EQ_TEST	
	00V			50	E9	0002E	BLBC	R0,3\$	
		01		8F	9F	00031	PUSHAB	#1	: 1303
14C5	CF			01	FB	00034	CALLS	#1,SHOW_CURRENT	
	5C			01	90	00039	MOVB	#1,AT_PRIMARY	: 1304
				00V	11	0003C	BRB	6\$	
	00V			5C	E9	0003E	BLBC	AT_PRIMARY,6\$: 1312
		00000000G		EF	D4	00041	CLRL	DEF_CURRENT	: 1314
00000000G	EF			00	FB	00047	CALLS	#0,INCR_CURRENT	: 1321
		00000000G		EF	D5	0004E	TSTL	DEF_CURRENT	
				CB	12	00054	BNEQ	1\$	
		00000000G		EF	9F	00056	PUSHAB	FDL DEST	: 1325
00000000G	EF			01	FB	0005C	CALLS	#1,PASS\$WRITELN2	: 1327
				04	00063		RET		

; Routine Size: 100 bytes, Routine Base: \$CODE + 01B97

					0000	00000	.ENTRY	SHOW_ALL PRIMARIES,^M<>	: 1379
		00000000G	EF	D4	00002	CLRL	LINES_SHOWN		: 1386
00000000G	EF	00000000G	EF	D0	0000B	MOVL	DEF_HEAD,DEF_CURRENT		: 1391
	50	00000000G	EF	D0	00013	MOVL	DEF_CURRENT,R0		: 1399
			60	95	0001A	TSTB	(R0)		
			00V	12	0001C	BNEQ	4\$		
	50	00000000G	EF	D0	0001E	MOVL	DEF_CURRENT,R0		
	09	19	A0	91	00025	CMPB	25(R0),#9		
			00V	13	00029	BEQL	4\$		
		01	8F	9F	0002B	PUSHAB	#1		: 1405
14C5	CF		01	FB	0002E	CALLS	#1,SHOW_CURRENT		
00000000G	EF		00	FB	00033	CALLS	#0,INCR_CURRENT		: 1410
		00000000G	EF	D5	0003A	TSTL	DEF_CURRENT		
			D1	12	00040	BNEQ	1\$		

00000000G EF 00000000G EF 9F 00042
00000000G EF 01 FB 00048
04 0004F

PUSHAB FDL DEST
CALLS #1,PASS\$WRITELN2
RET

; 1414
; 1416

; Routine Size: 80 bytes, Routine Base: \$CODE + 01BFB

0004 00000
5E 04 C2 00002
5C 04 BC 90 00005
00000000G EF D4 00009
50 00000000G EF D0 0000F
52 60 90 00016
50 00000000G EF D0 00019
60 94 00020
FC AD 5C 90 00022
FC AD 9F 00026
14C5 CF 01 FB 00029
50 00000000G EF D0 0002E
OF 19 A0 91 00035
00V 13 00039
50 00000000G EF D0 0003B
60 01 90 00042
FC AD 5C 90 00045
FC AD 9F 00049
14C5 CF 01 FB 0004C 2\$:
50 00000000G EF D0 00051
60 52 90 00058
04 0005B

.ENTRY SHOW CUR_PRI_SEC,^M<R2>
SUBL2 #4,SP ; 1468
MOVB @4(R12),PLUS_VALUE
CLRL LINES_SHOWN ; 1475
MOVL DEF_CURRENT,RO ; 1482
MOVB (RO),SAVE_OBJECT_TYPE
MOVL DEF_CURRENT,RO ; 1484
CLRB (RO)
MOVB PLUS_VALUE,-4(FP) ; 1485
PUSHAB -4(FP)
CALLS #1,SHOW_CURRENT
MOVL DEF_CURRENT,RO ; 1487
CMPB 25(RO),#15
BEQL 2\$
MOVL DEF_CURRENT,RO ; 1491
MOVB #1,(RO)
MOVB PLUS_VALUE,-4(FP) ; 1492
PUSHAB -4(FP)
CALLS #1,SHOW_CURRENT
MOVL DEF_CURRENT,RO ; 1496
MOVB SAVE_OBJECT_TYPE,(RO)
RET ; 1498

; Routine Size: 92 bytes, Routine Base: \$CODE + 01C4B

01CA7

.END

EDFSHOW
V04-000

Pascal Compilation Statistics

J 2
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (22) Page 56

COMMAND QUALIFIERS

PASCAL/MACHINE/NODEBUG/NOCHECK/LIS=LIS\$:EDFSHOW/OBJ=OBJ\$:EDFSHOW MSRC\$:EDFSHOW

/CHECK=(NOBOUNDS, NOCASE_SELECTORS, NOOVERFLOW, NOPOINTERS, NOSUBRANGE)

/DEBUG=(NOSYMBOLS, NOTRACEBACK)

/ENVIRONMENT= \$255\$DUA28:[EDF.OBJ]EDFSHOW.PEN;1

/LIST= \$255\$DUA28:[EDF.LIS]EDFSHOW.LIS;1

/OBJECT= \$255\$DUA28:[EDF.OBJ]EDFSHOW.OBJ;1

/NOCROSS_REFERENCE /ERROR_LIMIT=30 /NOG_FLOATING /MACHINE_CODE /NOOLD_VERSION /OPTIMIZE /NOSTANDARD /WARNINGS

COMPILER INTERNAL TIMING

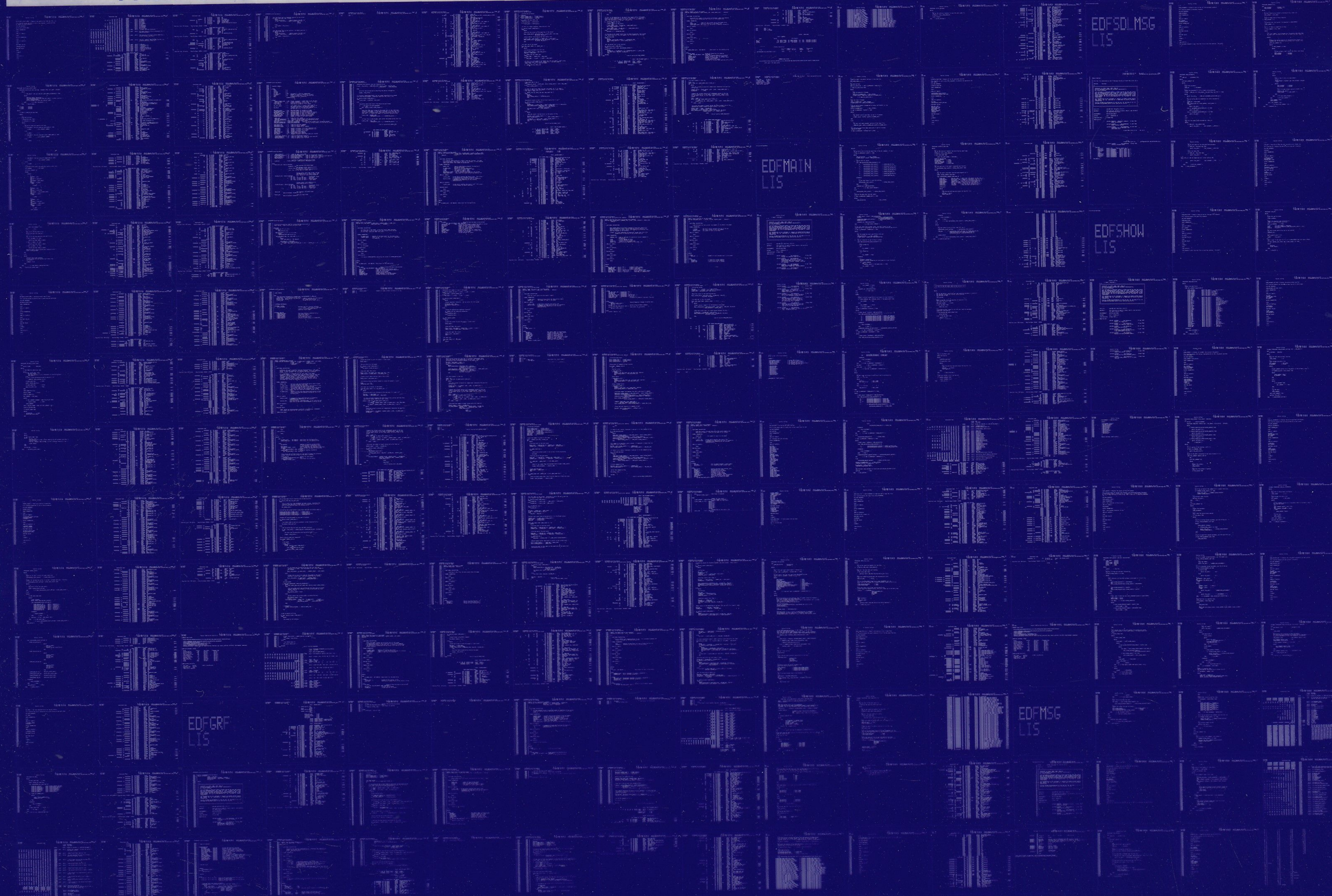
Phase	Faults	CPU Time	Elapsed Time
Initialization	83	00:00.4	00:02.5
Source Analysis	675	00:15.7	03:51.6
Source Listing	41	00:01.9	00:04.0
Tree Construction	185	00:01.0	00:02.1
Flow Analysis	39	00:00.3	00:00.5
Profit Analysis	30	00:00.5	00:01.1
Context Analysis	693	00:07.8	00:17.1
Name Packing	10	00:00.2	00:00.5
Code Selection	63	00:01.1	00:02.7
Final	361	00:06.2	00:16.8
TOTAL	2184	00:35.3	04:39.2

COMPILATION STATISTICS

CPU Time: 00:35.3 (2554 Lines/Minute)
Elapsed Time: 04:39.2
Page Faults: 2184
Compilation Complete

0127 AH-BT13A-SE
VAX/VMS V4.0

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0128 AH-BT13A-SE
VAX/VMS V4.0

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